

**PROCUE**  
HARD TOOLS

## FURAÇÃO

### BMKN / BMSKN

Brocas de metal duro integral versáteis e de alto rendimento

BMKN

- Refrigeração Externa de  $\varnothing 3$  a  $\varnothing 25$  nas variantes: 3x $\varnothing$  / 5x $\varnothing$  / 8x $\varnothing$  Com Revestimento PVD
- Refrigeração Interna de  $\varnothing 3$  a  $\varnothing 25$  nas variantes: 3x $\varnothing$  / 5x $\varnothing$  / 8x $\varnothing$  / 12x $\varnothing$  Com Revestimento PVD

BMSKN

- Refrigeração Externa de  $\varnothing 1$  a  $\varnothing 4$  nas variantes: 3x $\varnothing$  / 5x $\varnothing$ \_S $\varnothing 4$  Com Revestimento PVD
- Refrigeração Interna de  $\varnothing 1$  a  $\varnothing 4$  nas variantes: 3x $\varnothing$  / 5x $\varnothing$  / 8x $\varnothing$ \_S $\varnothing 4$  Com Revestimento PVD

### Aplicação

- Para uma ampla gama de materiais em todos os segmentos industriais, p. ex. Usinagem geral, Moldes e Matrizes, Automovel, etc...

- Área de aplicação ISO: P M K N S

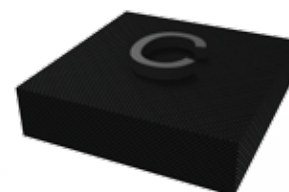
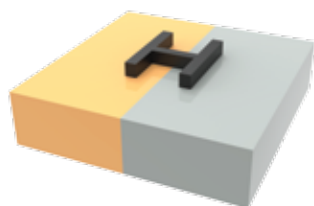
### Materiais de Trabalho

Geral

Materiais Duros

Alumínio

Composito



### Características e Benefícios:

- Alta produtividade e vida útil consistente da ferramenta
- Valor excepcional sem comprometer a qualidade
- Excelente qualidade do furo
- Tolerância do furo consistente
- Custos de ferramentas reduzidos
- Pode ser reafiada até oito vezes, aumentando significativamente a vida útil da ferramenta

## FURAÇÃO

### Recomendações

- Recomenda-se uso de refrigeração interna, pressão mínima recomendada de 20 bars.
- Optimizada para ser usada em mandril hidráulico com pinça fixa e térmica de alta precisão

### Parâmetros da ferramenta de corte: ( de acordo com ISO 13399 )

- Todas as Brocas foram definidas por parâmetros de acordo com a norma ISO 13399.
- Os parâmetros, em conformidade e padronizados, podem ser inseridos diretamente no sistema.

Parâmetros	Definição
BSG	Norma
CHW	Largura do Chanfre 0,1
DC	Diâmetro de corte
DCONMS	Diâmetro de conexão - lado da máquina
LCF	Comprimento do canal para saída da apara
LF	Comprimento útil
LGR	Comprimento da reafiação
LS	Comprimento da haste
LU	Comprimento útil (máx. recomendado)
OAL	Comprimento total
PL	Comprimento da ponta
SIG	Ângulo da ponta
TCHA	Tolerância atingível do furo
ULDR	Relação comprimento útil/diâmetro

- Largura da tolerância ( $D_{m\acute{a}x} - D_{m\acute{i}n}$  / designada IT de acordo com a norma ISO)

### Faixa de diâmetro, D (mm)

D	D>3-6	D>10-18	D18>30
IT8	0.018	0.022	0.033
IT9	0.030	0.036	0.052

# FURAÇÃO

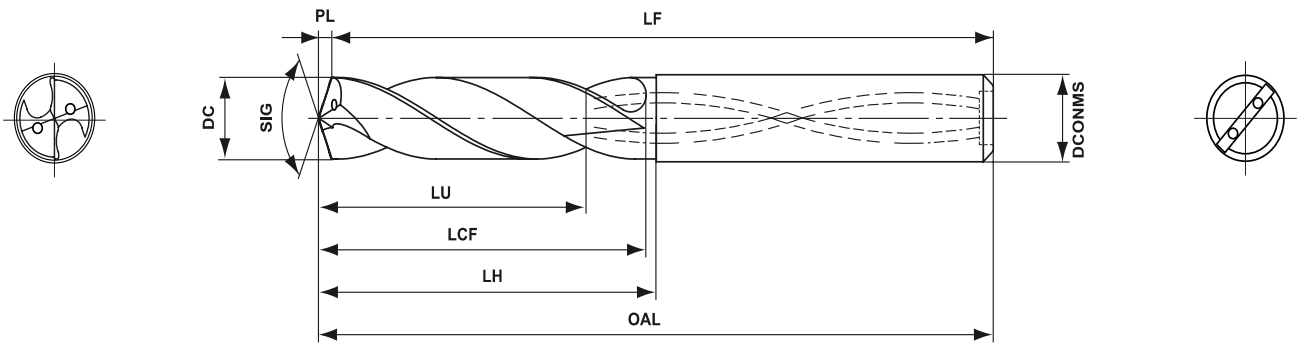
## Exemplos de Código:

Exemplos	TIPO	Uso Geral	ULDR	Material	Optimizado	Ø1 a Ø25	Refrigeração	Revestimento
- BM5KN068RIHNO								
Código	B	M	5	K	N	0680	RI	HNO
Def	BROCA	Uso Geral	5xØ	METAL DURO	P/Aço	Ø6.80	C/REFRIGERAÇÃO INTERNA	PVD HNO (AITiN)

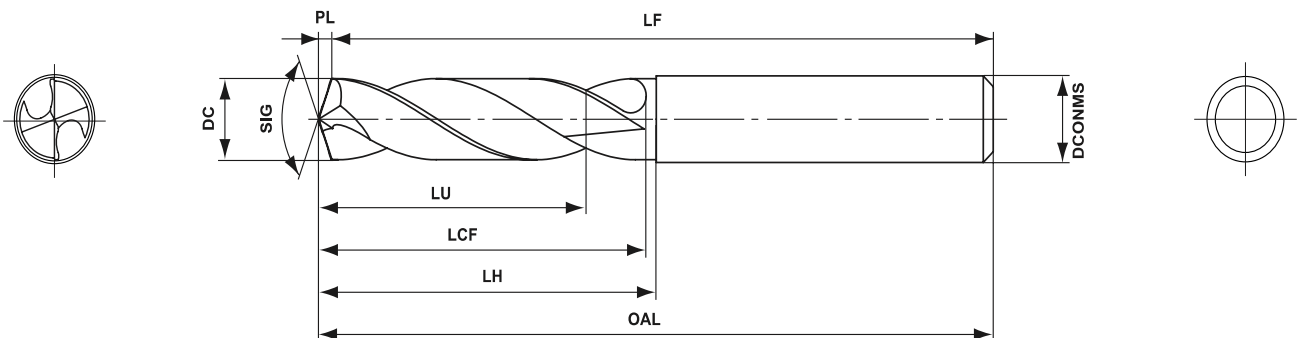
## BMKN



## BMKNRI



## BMKN



# FURAÇÃO

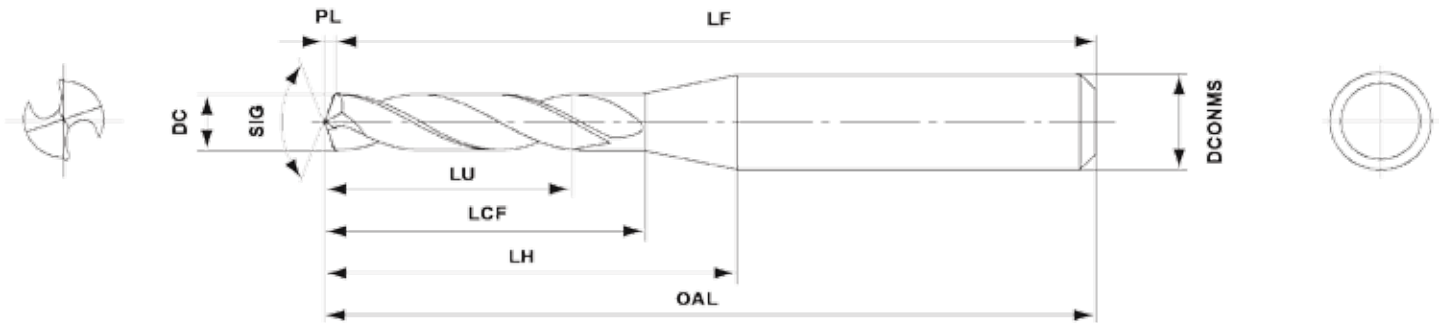
## Exemplos de Código:

Exemplos	TIPO	Usos Gerais	ULDR	Material	Optimizado	Ø1 a Ø25	Refrigeração	Revestimento
- BMS3KN022REHNO								
Código	B	MS	3	K	N	0220	RE	HNO
Def	BROCA	Mini	3xØ	METAL DURO	P/ Aço	Ø2.20	REFRIGERAÇÃO EXTERNA	PVD HNO (AlTiN)

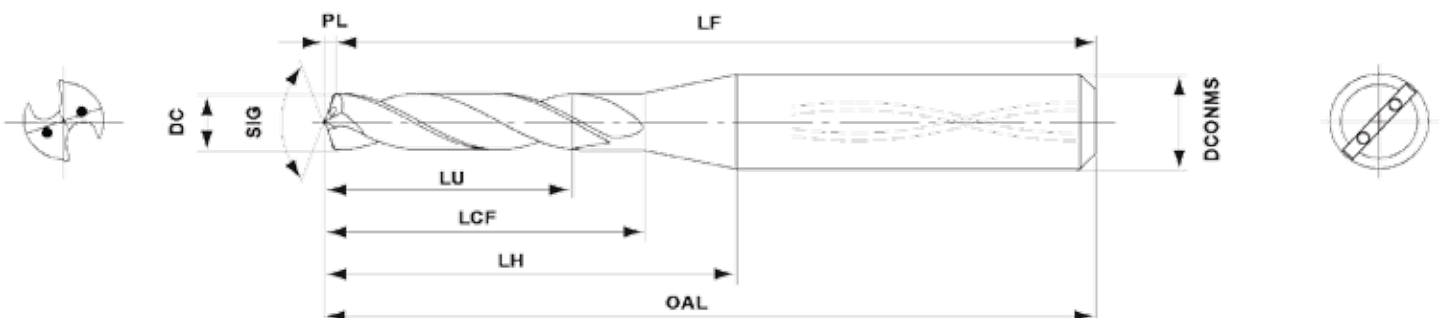
## BMSKN



## BMSKN



## BMSKNRI



FURAÇÃO

BMKN/BMSKN

DC.m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
1,00	3xØ	BMS3KN010REHNO	140°	4,5	5,0	32,0	60	4,0	RE	
1,00	5xØ	BMS5KN010REHNO	140°	6,5	8,0	30,0	60	4,0	RE	
1,00	3xØ	BMS3KN010RIHNO	140°	4,5	5,0	32,0	60	4,0	RI	
1,00	5xØ	BMS5KN010RIHNO	140°	6,5	8,0	30,0	60	4,0	RI	
1,10	3xØ	BMS3KN011REHNO	140°	5,0	5,5	31,5	60	4,0	RE	
1,10	5xØ	BMS5KN011REHNO	140°	7,2	8,8	29,0	60	4,0	RE	
1,10	3xØ	BMS3KN011RIHNO	140°	5,0	5,5	31,5	60	4,0	RI	
1,10	5xØ	BMS5KN011RIHNO	140°	7,2	8,8	29,0	60	4,0	RI	
1,20	3xØ	BMS3KN012REHNO	140°	5,4	6,0	31,0	60	4,0	RE	
1,20	5xØ	BMS5KN012REHNO	140°	7,8	9,6	29,0	60	4,0	RE	
1,20	3xØ	BMS3KN012RIHNO	140°	5,4	6,0	31,0	60	4,0	RI	
1,20	5xØ	BMS5KN012RIHNO	140°	7,8	9,6	29,0	60	4,0	RI	
1,30	3xØ	BMS3KN013REHNO	140°	5,9	6,5	31,5	60	4,0	RE	
1,30	5xØ	BMS5KN013REHNO	140°	8,5	10,4	28,5	60	4,0	RE	
1,30	3xØ	BMS3KN013RIHNO	140°	5,9	6,5	31,5	60	4,0	RI	
1,30	5xØ	BMS5KN013RIHNO	140°	8,5	10,4	28,5	60	4,0	RI	
1,40	3xØ	BMS3KN014REHNO	140°	6,3	7,0	30,0	60	4,0	RE	
1,40	5xØ	BMS5KN014REHNO	140°	9,1	11,2	28,0	60	4,0	RE	
1,40	3xØ	BMS3KN014RIHNO	140°	6,3	7,0	30,0	60	4,0	RI	
1,40	5xØ	BMS5KN014RIHNO	140°	9,1	11,2	28,0	60	4,0	RI	
1,50	3xØ	BMS3KN015REHNO	140°	6,8	7,5	35,0	60	4,0	RE	
1,50	5xØ	BMS5KN015REHNO	140°	9,8	12,0	32,0	60	4,0	RE	
1,50	3xØ	BMS3KN015RIHNO	140°	6,8	7,5	35,0	60	4,0	RI	
1,50	5xØ	BMS5KN015RIHNO	140°	9,8	12,0	32,0	60	4,0	RI	
1,60	3xØ	BMS3KN016REHNO	140°	7,2	8,0	34,5	60	4,0	RE	
1,60	5xØ	BMS5KN016REHNO	140°	10,4	12,8	31,0	60	4,0	RE	
1,60	3xØ	BMS3KN016RIHNO	140°	7,2	8,0	34,5	60	4,0	RI	
1,60	5xØ	BMS5KN016RIHNO	140°	10,4	12,8	31,0	60	4,0	RI	
1,70	3xØ	BMS3KN017REHNO	140°	7,7	8,5	34,0	60	4,0	RE	
1,70	5xØ	BMS5KN017REHNO	140°	11,1	13,6	30,5	60	4,0	RE	
1,70	3xØ	BMS3KN017RIHNO	140°	7,7	8,5	34,0	60	4,0	RI	
1,70	5xØ	BMS5KN017RIHNO	140°	11,1	13,6	30,5	60	4,0	RI	
1,80	3xØ	BMS3KN018REHNO	140°	8,1	9,0	33,5	60	4,0	RE	
1,80	5xØ	BMS5KN018REHNO	140°	11,7	14,4	30,0	60	4,0	RE	
1,80	3xØ	BMS3KN018RIHNO	140°	8,1	9,0	33,5	60	4,0	RI	
1,80	5xØ	BMS5KN018RIHNO	140°	11,7	14,4	30,0	60	4,0	RI	
1,90	3xØ	BMS3KN019REHNO	140°	8,6	9,5	33,0	60	4,0	RE	
1,90	5xØ	BMS5KN019REHNO	140°	12,4	15,2	29,5	60	4,0	RE	
1,90	3xØ	BMS3KN019RIHNO	140°	8,6	9,5	33,0	60	4,0	RI	
1,90	5xØ	BMS5KN019RIHNO	140°	12,4	15,2	29,5	60	4,0	RI	

DC.m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
2,00	3xØ	BMS3KN020REHNO	140°	11,0	14,0	36,0	60	4,0	RE	
2,00	5xØ	BMS5KN020REHNO	140°	13,0	16,0	29,0	60	4,0	RE	
2,00	3xØ	BMS3KN020RIHNO	140°	11,0	14,0	36,0	60	4,0	RI	
2,00	5xØ	BMS5KN020RIHNO	140°	13,0	16,0	29,0	60	4,0	RI	
2,10	3xØ	BMS3KN021REHNO	140°	11,0	14,0	36,0	60	4,0	RE	
2,10	5xØ	BMS5KN021REHNO	140°	13,7	16,8	33,0	60	4,0	RE	
2,10	3xØ	BMS3KN021RIHNO	140°	11,0	14,0	36,0	60	4,0	RI	
2,10	5xØ	BMS5KN021RIHNO	140°	13,7	16,8	33,0	60	4,0	RI	
2,20	3xØ	BMS3KN022REHNO	140°	11,0	14,0	36,0	60	4,0	RE	
2,20	5xØ	BMS5KN022REHNO	140°	14,3	17,6	32,5	60	4,0	RE	
2,20	3xØ	BMS3KN022RIHNO	140°	11,0	14,0	36,0	60	4,0	RI	
2,20	5xØ	BMS5KN022RIHNO	140°	14,3	17,6	32,5	60	4,0	RI	
2,30	3xØ	BMS3KN023REHNO	140°	11,0	14,0	36,0	60	4,0	RE	
2,30	5xØ	BMS5KN023REHNO	140°	15,0	18,4	32,0	60	4,0	RE	
2,30	3xØ	BMS3KN023RIHNO	140°	11,0	14,0	36,0	60	4,0	RI	
2,30	5xØ	BMS5KN023RIHNO	140°	15,0	18,4	32,0	60	4,0	RI	
2,40	3xØ	BMS3KN024REHNO	140°	11,0	14,0	36,0	60	4,0	RE	
2,40	5xØ	BMS5KN024REHNO	140°	15,6	19,2	31,5	60	4,0	RE	
2,40	3xØ	BMS3KN024RIHNO	140°	11,0	14,0	36,0	60	4,0	RI	
2,40	5xØ	BMS5KN024RIHNO	140°	15,6	19,2	31,5	60	4,0	RI	
2,50	3xØ	BMS3KN025REHNO	140°	11,0	14,0	36,0	60	4,0	RE	
2,50	5xØ	BMS5KN025REHNO	140°	16,3	20,0	30,5	60	4,0	RE	
2,50	3xØ	BMS3KN025RIHNO	140°	11,0	14,0	36,0	60	4,0	RI	
2,50	5xØ	BMS5KN025RIHNO	140°	16,3	20,0	30,5	60	4,0	RI	
2,60	3xØ	BMS3KN026REHNO	140°	11,0	14,0	36,0	60	4,0	RE	
2,60	5xØ	BMS5KN026REHNO	140°	16,9	20,8	30,0	60	4,0	RE	
2,60	3xØ	BMS3KN026RIHNO	140°	11,0	14,0	36,0	60	4,0	RI	
2,60	5xØ	BMS5KN026RIHNO	140°	16,9	20,8	30,0	60	4,0	RI	
2,70	3xØ	BMS3KN027REHNO	140°	11,0	14,0	36,0	60	4,0	RE	
2,70	5xØ	BMS5KN027REHNO	140°	17,6	21,6	29,0	60	4,0	RE	
2,70	3xØ	BMS3KN027RIHNO	140°	11,0	14,0	36,0	60	4,0	RI	
2,70	5xØ	BMS5KN027RIHNO	140°	17,6	21,6	29,0	60	4,0	RI	
2,80	3xØ	BMS3KN028REHNO	140°	11,0	14,0	36,0	60	4,0	RE	
2,80	5xØ	BMS5KN028REHNO	140°	18,2	22,4	29,0	60	4,0	RE	
2,80	3xØ	BMS3KN028RIHNO	140°	11,0	14,0	36,0	60	4,0	RI	
2,80	5xØ	BMS5KN028RIHNO	140°	18,2	22,4	29,0	60	4,0	RI	
2,90	3xØ	BMS3KN029REHNO	140°	11,0	14,0	36,0	60	4,0	RE	
2,90	5xØ	BMS5KN029REHNO	140°	18,9	23,2	28,5	60	4,0	RE	
2,90	3xØ	BMS3KN029RIHNO	140°	11,0	14,0	36,0	60	4,0	RI	
2,90	5xØ	BMS5KN029RIHNO	140°	18,9	23,2	28,5	60	4,0	RI	

FURAÇÃO

BMKN/BMSKN

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
3,00	3xØ	BMS3KN030REHNO	140°	14,0	20,0	36,0	60	4,0	RE	
3,00	5xØ	BMS5KN030REHNO	140°	23,0	28,0	36,0	66	4,0	RE	
3,00	8xØ	BMS8KN030REHNO	135°	29,0	34,0	36,0	74	4,0	RE	
3,00	3xØ	BMS3KN030RIHNO	140°	14,0	20,0	36,0	60	4,0	RI	
3,00	5xØ	BMS5KN030RIHNO	140°	23,0	28,0	36,0	66	4,0	RI	
3,00	8xØ	BMS8KN030RIHNO	135°	29,0	34,0	36,0	74	4,0	RI	
3,00	3xØ	BM3KN0300REHNO	140°	14,0	20,0	36,0	66	6,0	RE	
3,00	5xØ	BM5KN0300REHNO	140°	23,0	28,0	36,0	66	6,0	RE	
3,00	8xØ	BM8KN0300REHNO	135°	29,0	34,0	36,0	82	6,0	RE	
3,00	3xØ	BM3KN0300RIHNO	140°	14,0	20,0	36,0	66	6,0	RI	
3,00	5xØ	BM5KN0300RIHNO	140°	23,0	28,0	36,0	66	6,0	RI	
3,00	8xØ	BM8KN0300RIHNO	135°	29,0	34,0	36,0	82	6,0	RI	
3,00	10xØ	BM10KN0300RIHNO	135°	38,0	50,0	36,0	87	6,0	RI	
3,00	12xØ	BM12KN0300RIHNO	135°	48,0	54,0	36,0	92	6,0	RI	
3,00	20xØ	BM20KN0300RIHNO	135°	76,0	92,0	48,0	143	6,0	RI	
3,10	3xØ	BMS3KN031REHNO	140°	14,0	20,0	36,0	60	4,0	RE	
3,10	5xØ	BMS5KN031REHNO	140°	23,0	28,0	36,0	66	4,0	RE	
3,10	8xØ	BMS8KN031REHNO	135°	29,0	34,0	36,0	74	4,0	RE	
3,10	3xØ	BMS3KN031RIHNO	140°	14,0	20,0	36,0	60	4,0	RI	
3,10	5xØ	BMS5KN031RIHNO	140°	23,0	28,0	36,0	66	4,0	RI	
3,10	8xØ	BMS8KN031RIHNO	135°	29,0	34,0	36,0	74	4,0	RI	
3,10	3xØ	BM3KN0310REHNO	140°	14,0	20,0	36,0	66	6,0	RE	
3,10	5xØ	BM5KN0310REHNO	140°	23,0	28,0	36,0	66	6,0	RE	
3,10	8xØ	BM8KN0310REHNO	135°	29,0	34,0	36,0	82	6,0	RE	
3,10	3xØ	BM3KN0310RIHNO	140°	14,0	20,0	36,0	66	6,0	RI	
3,10	5xØ	BM5KN0310RIHNO	140°	23,0	28,0	36,0	66	6,0	RI	
3,10	8xØ	BM8KN0310RIHNO	135°	29,0	34,0	36,0	82	6,0	RI	
3,10	10xØ	BM10KN0310RIHNO	135°	38,0	50,0	36,0	87	6,0	RI	
3,10	12xØ	BM12KN0310RIHNO	135°	48,0	54,0	36,0	92	6,0	RI	
3,10	20xØ	BM20KN0310RIHNO	135°	76,0	92,0	48,0	143	6,0	RI	
3,20	3xØ	BMS3KN032REHNO	140°	14,0	20,0	36,0	60	4,0	RE	
3,20	5xØ	BMS5KN032REHNO	140°	23,0	28,0	36,0	66	4,0	RE	
3,20	8xØ	BMS8KN032REHNO	135°	29,0	34,0	36,0	74	4,0	RE	
3,20	3xØ	BMS3KN032RIHNO	140°	14,0	20,0	36,0	60	4,0	RI	
3,20	5xØ	BMS5KN032RIHNO	140°	23,0	28,0	36,0	66	4,0	RI	
3,20	8xØ	BMS8KN032RIHNO	135°	29,0	34,0	36,0	74	4,0	RI	
3,20	3xØ	BM3KN0320REHNO	140°	14,0	20,0	36,0	66	6,0	RE	
3,20	5xØ	BM5KN0320REHNO	140°	23,0	28,0	36,0	66	6,0	RE	
3,20	8xØ	BM8KN0320REHNO	135°	29,0	34,0	36,0	82	6,0	RE	
3,20	3xØ	BM3KN0320RIHNO	140°	14,0	20,0	36,0	66	6,0	RI	
3,20	5xØ	BM5KN0320RIHNO	140°	23,0	28,0	36,0	66	6,0	RI	
3,20	8xØ	BM8KN0320RIHNO	135°	29,0	34,0	36,0	82	6,0	RI	
3,20	10xØ	BM10KN0320RIHNO	135°	38,0	50,0	36,0	87	6,0	RI	
3,20	12xØ	BM12KN0320RIHNO	135°	48,0	54,0	36,0	92	6,0	RI	
3,20	20xØ	BM20KN0320RIHNO	135°	76,0	92,0	48,0	143	6,0	RI	

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
3,30	3xØ	BMS3KN033REHNO	M4 140°	14,0	20,0	36,0	60	4,0	RE	
3,30	5xØ	BMS5KN033REHNO	M4 140°	23,0	28,0	36,0	66	4,0	RE	
3,30	8xØ	BMS8KN033REHNO	M4 135°	29,0	34,0	36,0	74	4,0	RE	
3,30	3xØ	BMS3KN033RIHNO	M4 140°	14,0	20,0	36,0	60	4,0	RI	
3,30	5xØ	BMS5KN033RIHNO	M4 140°	23,0	28,0	36,0	66	4,0	RI	
3,30	8xØ	BMS8KN033RIHNO	M4 135°	29,0	34,0	36,0	74	4,0	RI	
3,30	3xØ	BM3KN0330REHNO	M4 140°	14,0	20,0	36,0	66	6,0	RE	
3,30	5xØ	BM5KN0330REHNO	M4 140°	23,0	28,0	36,0	66	6,0	RE	
3,30	8xØ	BM8KN0330REHNO	M4 135°	29,0	34,0	36,0	82	6,0	RE	
3,30	3xØ	BM3KN0330RIHNO	M4 140°	14,0	20,0	36,0	66	6,0	RI	
3,30	5xØ	BM5KN0330RIHNO	M4 140°	23,0	28,0	36,0	66	6,0	RI	
3,30	8xØ	BM8KN0330RIHNO	M4 135°	29,0	34,0	36,0	82	6,0	RI	
3,30	10xØ	BM10KN0330RIHNC	M4 135°	38,0	50,0	36,0	87	6,0	RI	
3,30	12xØ	BM12KN0330RIHNC	M4 135°	48,0	54,0	36,0	92	6,0	RI	
3,30	20xØ	BM20KN0330RIHNC	M4 135°	76,0	92,0	48,0	143	6,0	RI	
3,40	3xØ	BMS3KN034REHNO	140°	14,0	20,0	36,0	60	4,0	RE	
3,40	5xØ	BMS5KN034REHNO	140°	23,0	28,0	36,0	66	4,0	RE	
3,40	8xØ	BMS8KN034REHNO	135°	29,0	34,0	36,0	74	4,0	RE	
3,40	3xØ	BMS3KN034RIHNO	140°	14,0	20,0	36,0	60	4,0	RI	
3,40	5xØ	BMS5KN034RIHNO	140°	23,0	28,0	36,0	66	4,0	RI	
3,40	8xØ	BMS8KN034RIHNO	135°	29,0	34,0	36,0	74	4,0	RI	
3,40	3xØ	BM3KN0340REHNO	140°	14,0	20,0	36,0	66	6,0	RE	
3,40	5xØ	BM5KN0340REHNO	140°	23,0	28,0	36,0	66	6,0	RE	
3,40	8xØ	BM8KN0340REHNO	135°	29,0	34,0	36,0	82	6,0	RE	
3,40	3xØ	BM3KN0340RIHNO	140°	14,0	20,0	36,0	66	6,0	RI	
3,40	5xØ	BM5KN0340RIHNO	140°	23,0	28,0	36,0	66	6,0	RI	
3,40	8xØ	BM8KN0340RIHNO	135°	29,0	34,0	36,0	82	6,0	RI	
3,40	10xØ	BM10KN0340RIHNO	135°	38,0	50,0	36,0	87	6,0	RI	
3,40	12xØ	BM12KN0340RIHNO	135°	48,0	54,0	36,0	92	6,0	RI	
3,40	20xØ	BM20KN0340RIHNO	135°	76,0	92,0	48,0	143	6,0	RI	
3,50	3xØ	BMS3KN035REHNO	140°	14,0	20,0	36,0	60	4,0	RE	
3,50	5xØ	BMS5KN035REHNO	140°	23,0	28,0	36,0	66	4,0	RE	
3,50	8xØ	BMS8KN035REHNO	135°	29,0	34,0	36,0	74	4,0	RE	
3,50	3xØ	BMS3KN035RIHNO	140°	14,0	20,0	36,0	60	4,0	RI	
3,50	5xØ	BMS5KN035RIHNO	140°	23,0	28,0	36,0	66	4,0	RI	
3,50	8xØ	BMS8KN035RIHNO	135°	29,0	34,0	36,0	74	4,0	RI	
3,50	3xØ	BM3KN0350REHNO	140°	14,0	20,0	36,0	66	6,0	RE	
3,50	5xØ	BM5KN0350REHNO	140°	23,0	28,0	36,0	66	6,0	RE	
3,50	8xØ	BM8KN0350REHNO	135°	29,0	34,0	36,0	82	6,0	RE	
3,50	3xØ	BM3KN0350RIHNO	140°	14,0	20,0	36,0	66	6,0	RI	
3,50	5xØ	BM5KN0350RIHNO	140°	23,0	28,0	36,0	66	6,0	RI	
3,50	8xØ	BM8KN0350RIHNO	135°	29,0	34,0	36,0	82	6,0	RI	
3,50	10xØ	BM10KN0350RIHNO	135°	38,0	50,0	36,0	87	6,0	RI	
3,50	12xØ	BM12KN0350RIHNO	135°	48,0	54,0	36,0	92	6,0	RI	
3,50	20xØ	BM20KN0350RIHNO	135°	76,0	92,0	48,0	143	6,0	RI	

**FURAÇÃO**

**BMKN/BMSKN**

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
3,60	3xØ	BMS3KN036REHNO	140°	14,0	20,0	36,0	60	4,0	RE	
3,60	5xØ	BMS5KN036REHNO	140°	23,0	28,0	36,0	66	4,0	RE	
3,60	8xØ	BMS8KN036REHNO	135°	29,0	34,0	36,0	74	4,0	RE	
3,60	3xØ	BMS3KN036RIHNO	140°	14,0	20,0	36,0	60	4,0	RI	
3,60	5xØ	BMS5KN036RIHNO	140°	23,0	28,0	36,0	66	4,0	RI	
3,60	8xØ	BMS8KN036RIHNO	135°	29,0	34,0	36,0	74	4,0	RI	
3,60	3xØ	BM3KN0360REHNO	140°	14,0	20,0	36,0	66	6,0	RE	
3,60	5xØ	BM5KN0360REHNO	140°	23,0	28,0	36,0	66	6,0	RE	
3,60	8xØ	BM8KN0360REHNO	135°	29,0	34,0	36,0	82	6,0	RE	
3,60	3xØ	BM3KN0360RIHNO	140°	14,0	20,0	36,0	66	6,0	RI	
3,60	5xØ	BM5KN0360RIHNO	140°	23,0	28,0	36,0	66	6,0	RI	
3,60	8xØ	BM8KN0360RIHNO	135°	29,0	34,0	36,0	82	6,0	RI	
3,60	10xØ	BM10KN0360RIHNO	135°	38,0	50,0	36,0	87	6,0	RI	
3,60	12xØ	BM12KN0360RIHNO	135°	48,0	54,0	36,0	92	6,0	RI	
3,60	20xØ	BM20KN0360RIHNO	135°	76,0	92,0	48,0	143	6,0	RI	
3,70	3xØ	BMS3KN037REHNO	140°	14,0	20,0	36,0	60	4,0	RE	
3,70	5xØ	BMS5KN037REHNO	140°	23,0	28,0	36,0	66	4,0	RE	
3,70	8xØ	BMS8KN037REHNO	135°	29,0	34,0	36,0	74	4,0	RE	
3,70	3xØ	BMS3KN037RIHNO	140°	14,0	20,0	36,0	60	4,0	RI	
3,70	5xØ	BMS5KN037RIHNO	140°	23,0	28,0	36,0	66	4,0	RI	
3,70	8xØ	BMS8KN037RIHNO	135°	29,0	34,0	36,0	74	4,0	RI	
3,70	3xØ	BM3KN0370REHNO	140°	14,0	20,0	36,0	66	6,0	RE	
3,70	5xØ	BM5KN0370REHNO	140°	23,0	28,0	36,0	66	6,0	RE	
3,70	8xØ	BM8KN0370REHNO	135°	29,0	34,0	36,0	82	6,0	RE	
3,70	3xØ	BM3KN0370RIHNO	140°	14,0	20,0	36,0	66	6,0	RI	
3,70	5xØ	BM5KN0370RIHNO	140°	23,0	28,0	36,0	66	6,0	RI	
3,70	8xØ	BM8KN0370RIHNO	135°	29,0	34,0	36,0	82	6,0	RI	
3,70	10xØ	BM10KN0370RIHNO	135°	38,0	50,0	36,0	87	6,0	RI	
3,70	12xØ	BM12KN0370RIHNO	135°	48,0	54,0	36,0	92	6,0	RI	
3,70	20xØ	BM20KN0370RIHNO	135°	76,0	92,0	48,0	143	6,0	RI	
3,80	3xØ	BMS3KN038REHNO	140°	17,0	24,0	36,0	66	4,0	RE	
3,80	5xØ	BMS5KN038REHNO	140°	29,0	36,0	36,0	74	4,0	RE	
3,80	8xØ	BMS8KN038REHNO	135°	36,0	43,0	36,0	82	4,0	RE	
3,80	3xØ	BMS3KN038RIHNO	140°	17,0	24,0	36,0	66	4,0	RI	
3,80	5xØ	BMS5KN038RIHNO	140°	29,0	36,0	36,0	74	4,0	RI	
3,80	8xØ	BMS8KN038RIHNO	135°	36,0	43,0	36,0	82	4,0	RI	
3,80	3xØ	BM3KN0380REHNO	140°	17,0	24,0	36,0	66	6,0	RE	
3,80	5xØ	BM5KN0380REHNO	140°	29,0	36,0	36,0	74	6,0	RE	
3,80	8xØ	BM8KN0380REHNO	135°	36,0	43,0	36,0	82	6,0	RE	
3,80	3xØ	BM3KN0380RIHNO	140°	17,0	24,0	36,0	66	6,0	RI	
3,80	5xØ	BM5KN0380RIHNO	140°	29,0	36,0	36,0	74	6,0	RI	
3,80	8xØ	BM8KN0380RIHNO	135°	36,0	43,0	36,0	82	6,0	RI	
3,80	10xØ	BM10KN0380RIHNO	135°	48,0	56,0	36,0	95	6,0	RI	

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
3,80	12xØ	BM12KN0380RIHNO	135°	58,0	64,0	36,0	102	6,0	RI	
3,80	20xØ	BM20KN0380RIHNO	135°	110,0	115,0	50,0	168	6,0	RI	
3,90	3xØ	BMS3KN039REHNO	140°	17,0	24,0	36,0	66	4,0	RE	
3,90	5xØ	BMS5KN039REHNO	140°	29,0	36,0	36,0	74	4,0	RE	
3,90	8xØ	BMS8KN039REHNO	135°	36,0	43,0	36,0	82	4,0	RE	
3,90	3xØ	BMS3KN039RIHNO	140°	17,0	24,0	36,0	66	4,0	RI	
3,90	5xØ	BMS5KN039RIHNO	140°	29,0	36,0	36,0	74	4,0	RI	
3,90	8xØ	BMS8KN039RIHNO	135°	36,0	43,0	36,0	82	4,0	RI	
3,90	3xØ	BM3KN0390REHNO	140°	17,0	24,0	36,0	66	6,0	RE	
3,90	5xØ	BM5KN0390REHNO	140°	29,0	36,0	36,0	74	6,0	RE	
3,90	8xØ	BM8KN0390REHNO	135°	36,0	43,0	36,0	82	6,0	RE	
3,90	3xØ	BM3KN0390RIHNO	140°	17,0	24,0	36,0	66	6,0	RI	
3,90	5xØ	BM5KN0390RIHNO	140°	29,0	36,0	36,0	74	6,0	RI	
3,90	8xØ	BM8KN0390RIHNO	135°	36,0	43,0	36,0	82	6,0	RI	
3,90	10xØ	BM10KN0390RIHNO	135°	48,0	56,0	36,0	95	6,0	RI	
3,90	12xØ	BM12KN0390RIHNO	135°	58,0	64,0	36,0	102	6,0	RI	
3,90	20xØ	BM20KN0390RIHNO	135°	110,0	115,0	50,0	168	6,0	RI	
4,00	3xØ	BMS3KN040REHNO	140°	17,0	24,0	36,0	66	4,0	RE	
4,00	5xØ	BMS5KN040REHNO	140°	29,0	36,0	36,0	74	4,0	RE	
4,00	8xØ	BMS8KN040REHNO	135°	36,0	43,0	36,0	82	4,0	RE	
4,00	3xØ	BMS3KN040RIHNO	140°	17,0	24,0	36,0	66	4,0	RI	
4,00	5xØ	BMS5KN040RIHNO	140°	29,0	36,0	36,0	74	4,0	RI	
4,00	8xØ	BMS8KN040RIHNO	135°	36,0	43,0	36,0	82	4,0	RI	
4,00	3xØ	BM3KN0400REHNO	140°	17,0	24,0	36,0	66	6,0	RE	
4,00	5xØ	BM5KN0400REHNO	140°	29,0	36,0	36,0	74	6,0	RE	
4,00	8xØ	BM8KN0400REHNO	135°	36,0	43,0	36,0	82	6,0	RE	
4,00	3xØ	BM3KN0400RIHNO	140°	17,0	24,0	36,0	66	6,0	RI	
4,00	5xØ	BM5KN0400RIHNO	140°	29,0	36,0	36,0	74	6,0	RI	
4,00	8xØ	BM8KN0400RIHNO	135°	36,0	43,0	36,0	82	6,0	RI	
4,00	10xØ	BM10KN0400RIHNO	135°	48,0	56,0	36,0	95	6,0	RI	
4,00	12xØ	BM12KN0400RIHNO	135°	58,0	64,0	36,0	102	6,0	RI	
4,00	20xØ	BM20KN0400RIHNO	135°	110,0	115,0	50,0	168	6,0	RI	
4,10	3xØ	BM3KN0410REHNO	140°	17,0	24,0	36,0	66	6,0	RE	
4,10	5xØ	BM5KN0410REHNO	140°	29,0	36,0	36,0	74	6,0	RE	
4,10	8xØ	BM8KN0410REHNO	135°	36,0	43,0	36,0	82	6,0	RE	
4,10	3xØ	BM3KN0410RIHNO	140°	17,0	24,0	36,0	66	6,0	RI	
4,10	5xØ	BM5KN0410RIHNO	140°	29,0	36,0	36,0	74	6,0	RI	
4,10	8xØ	BM8KN0410RIHNO	135°	36,0	43,0	36,0	82	6,0	RI	
4,10	10xØ	BM10KN0410RIHNO	135°	48,0	56,0	36,0	95	6,0	RI	
4,10	12xØ	BM12KN0410RIHNO	135°	58,0	64,0	36,0	102	6,0	RI	
4,10	20xØ	BM20KN0410RIHNO	135°	110,0	115,0	50,0	168	6,0	RI	
4,20	3xØ	BM3KN0420REHNO	M5 140°	17,0	24,0	36,0	66	6,0	RE	
4,20	5xØ	BM5KN0420REHNO	M5 140°	29,0	36,0	36,0	74	6,0	RE	



**FURAÇÃO**

**BMKN/BMSKN**

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
4,20	8xØ	BM8KN0420REHNO	M5	135°	36,0	43,0	36,0	82	6,0	RE
4,20	3xØ	BM3KN0420RIHNO	M5	140°	17,0	24,0	36,0	66	6,0	RI
4,20	5xØ	BM5KN0420RIHNO	M5	140°	29,0	36,0	36,0	74	6,0	RI
4,20	8xØ	BM8KN0420RIHNO	M5	135°	36,0	43,0	36,0	82	6,0	RI
4,20	10xØ	BM10KN0420RIHNC	M5	135°	48,0	56,0	36,0	95	6,0	RI
4,20	12xØ	BM12KN0420RIHNC	M5	135°	58,0	64,0	36,0	102	6,0	RI
4,20	20xØ	BM20KN0420RIHNC	M5	135°	110,0	115,0	50,0	168	6,0	RI
4,30	3xØ	BM3KN0430REHNO		140°	17,0	24,0	36,0	66	6,0	RE
4,30	5xØ	BM5KN0430REHNO		140°	29,0	36,0	36,0	74	6,0	RE
4,30	8xØ	BM8KN0430REHNO		135°	36,0	43,0	36,0	82	6,0	RE
4,30	3xØ	BM3KN0430RIHNO		140°	17,0	24,0	36,0	66	6,0	RI
4,30	5xØ	BM5KN0430RIHNO		140°	29,0	36,0	36,0	74	6,0	RI
4,30	8xØ	BM8KN0430RIHNO		135°	36,0	43,0	36,0	82	6,0	RI
4,30	10xØ	BM10KN0430RIHNO		135°	48,0	56,0	36,0	95	6,0	RI
4,30	12xØ	BM12KN0430RIHNO		135°	58,0	64,0	36,0	102	6,0	RI
4,30	20xØ	BM20KN0430RIHNO		135°	110,0	115,0	50,0	168	6,0	RI
4,40	3xØ	BM3KN0440REHNO		140°	17,0	24,0	36,0	66	6,0	RE
4,40	5xØ	BM5KN0440REHNO		140°	29,0	36,0	36,0	74	6,0	RE
4,40	8xØ	BM8KN0440REHNO		135°	36,0	43,0	36,0	82	6,0	RE
4,40	3xØ	BM3KN0440RIHNO		140°	17,0	24,0	36,0	66	6,0	RI
4,40	5xØ	BM5KN0440RIHNO		140°	29,0	36,0	36,0	74	6,0	RI
4,40	8xØ	BM8KN0440RIHNO		135°	36,0	43,0	36,0	82	6,0	RI
4,40	10xØ	BM10KN0440RIHNO		135°	48,0	56,0	36,0	95	6,0	RI
4,40	12xØ	BM12KN0440RIHNO		135°	58,0	64,0	36,0	102	6,0	RI
4,40	20xØ	BM20KN0440RIHNO		135°	110,0	115,0	50,0	168	6,0	RI
4,50	3xØ	BM3KN0450REHNO		140°	17,0	24,0	36,0	66	6,0	RE
4,50	5xØ	BM5KN0450REHNO		140°	29,0	36,0	36,0	74	6,0	RE
4,50	8xØ	BM8KN0450REHNO		135°	36,0	43,0	36,0	82	6,0	RE
4,50	3xØ	BM3KN0450RIHNO		140°	17,0	24,0	36,0	66	6,0	RI
4,50	5xØ	BM5KN0450RIHNO		140°	29,0	36,0	36,0	74	6,0	RI
4,50	8xØ	BM8KN0450RIHNO		135°	36,0	43,0	36,0	82	6,0	RI
4,50	10xØ	BM10KN0450RIHNO		135°	48,0	56,0	36,0	95	6,0	RI
4,50	12xØ	BM12KN0450RIHNO		135°	58,0	64,0	36,0	102	6,0	RI
4,50	20xØ	BM20KN0450RIHNO		135°	110,0	115,0	50,0	168	6,0	RI
4,60	3xØ	BM3KN0460REHNO		140°	17,0	24,0	36,0	66	6,0	RE
4,60	5xØ	BM5KN0460REHNO		140°	29,0	36,0	36,0	74	6,0	RE
4,60	8xØ	BM8KN0460REHNO		135°	36,0	43,0	36,0	82	6,0	RE
4,60	3xØ	BM3KN0460RIHNO		140°	17,0	24,0	36,0	66	6,0	RI
4,60	5xØ	BM5KN0460RIHNO		140°	29,0	36,0	36,0	74	6,0	RI
4,60	8xØ	BM8KN0460RIHNO		135°	36,0	43,0	36,0	82	6,0	RI
4,60	10xØ	BM10KN0460RIHNO		135°	48,0	56,0	36,0	95	6,0	RI
4,60	12xØ	BM12KN0460RIHNO		135°	58,0	64,0	36,0	102	6,0	RI
4,60	20xØ	BM20KN0460RIHNO		135°	110,0	115,0	50,0	168	6,0	RI

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
4,70	3xØ	BM3KN0470REHNO		140°	17,0	24,0	36,0	66	6,0	RE
4,70	5xØ	BM5KN0470REHNO		140°	29,0	36,0	36,0	74	6,0	RE
4,70	8xØ	BM8KN0470REHNO		135°	48,0	57,0	36,0	95	6,0	RE
4,70	3xØ	BM3KN0470RIHNO		140°	17,0	24,0	36,0	66	6,0	RI
4,70	5xØ	BM5KN0470RIHNO		140°	29,0	36,0	36,0	74	6,0	RI
4,70	8xØ	BM8KN0470RIHNO		135°	48,0	57,0	36,0	95	6,0	RI
4,70	10xØ	BM10KN0470RIHNO		135°	48,0	56,0	36,0	95	6,0	RI
4,70	12xØ	BM12KN0470RIHNO		135°	58,0	64,0	36,0	102	6,0	RI
4,70	20xØ	BM20KN0470RIHNO		135°	110,0	115,0	50,0	168	6,0	RI
4,80	3xØ	BM3KN0480REHNO		140°	20,0	28,0	36,0	66	6,0	RE
4,80	5xØ	BM5KN0480REHNO		140°	35,0	44,0	36,0	82	6,0	RE
4,80	8xØ	BM8KN0480REHNO		135°	48,0	57,0	36,0	95	6,0	RE
4,80	3xØ	BM3KN0480RIHNO		140°	20,0	28,0	36,0	66	6,0	RI
4,80	5xØ	BM5KN0480RIHNO		140°	35,0	44,0	36,0	82	6,0	RI
4,80	8xØ	BM8KN0480RIHNO		135°	48,0	57,0	36,0	95	6,0	RI
4,80	10xØ	BM10KN0480RIHNO		135°	61,0	73,0	36,0	113	6,0	RI
4,80	12xØ	BM12KN0480RIHNO		135°	70,0	78,0	36,0	116	6,0	RI
4,80	20xØ	BM20KN0480RIHNO		135°	128,0	138,0	52,0	193	6,0	RI
4,90	3xØ	BM3KN0490REHNO		140°	20,0	28,0	36,0	66	6,0	RE
4,90	5xØ	BM5KN0490REHNO		140°	35,0	44,0	36,0	82	6,0	RE
4,90	8xØ	BM8KN0490REHNO		135°	48,0	57,0	36,0	95	6,0	RE
4,90	3xØ	BM3KN0490RIHNO		140°	20,0	28,0	36,0	66	6,0	RI
4,90	5xØ	BM5KN0490RIHNO		140°	35,0	44,0	36,0	82	6,0	RI
4,90	8xØ	BM8KN0490RIHNO		135°	48,0	57,0	36,0	95	6,0	RI
4,90	10xØ	BM10KN0490RIHNO		135°	61,0	73,0	36,0	113	6,0	RI
4,90	12xØ	BM12KN0490RIHNO		135°	70,0	78,0	36,0	116	6,0	RI
4,90	20xØ	BM20KN0490RIHNO		135°	128,0	138,0	52,0	193	6,0	RI
5,00	3xØ	BM3KN0500REHNO	M6	140°	20,0	28,0	36,0	66	6,0	RE
5,00	5xØ	BM5KN0500REHNO	M6	140°	35,0	44,0	36,0	82	6,0	RE
5,00	8xØ	BM8KN0500REHNO	M6	135°	48,0	57,0	36,0	95	6,0	RE
5,00	3xØ	BM3KN0500RIHNO	M6	140°	20,0	28,0	36,0	66	6,0	RI
5,00	5xØ	BM5KN0500RIHNO	M6	140°	35,0	44,0	36,0	82	6,0	RI
5,00	8xØ	BM8KN0500RIHNO	M6	135°	48,0	57,0	36,0	95	6,0	RI
5,00	10xØ	BM10KN0500RIHNC	M6	135°	61,0	73,0	36,0	113	6,0	RI
5,00	12xØ	BM12KN0500RIHNC	M6	135°	70,0	78,0	36,0	116	6,0	RI
5,00	20xØ	BM20KN0500RIHNC	M6	135°	128,0	138,0	52,0	193	6,0	RI
5,10	3xØ	BM3KN0510REHNO		140°	20,0	28,0	36,0	66	6,0	RE
5,10	5xØ	BM5KN0510REHNO		140°	35,0	44,0	36,0	82	6,0	RE
5,10	8xØ	BM8KN0510REHNO		135°	48,0	57,0	36,0	95	6,0	RE
5,10	3xØ	BM3KN0510RIHNO		140°	20,0	28,0	36,0	66	6,0	RI
5,10	5xØ	BM5KN0510RIHNO		140°	35,0	44,0	36,0	82	6,0	RI
5,10	8xØ	BM8KN0510RIHNO		135°	48,0	57,0	36,0	95	6,0	RI
5,10	10xØ	BM10KN0510RIHNO		135°	61,0	73,0	36,0	113	6,0	RI

FURAÇÃO

BMKN/BMSKN

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
5,10	12xØ	BM12KN0510RIHNO	135°	70,0	78,0	36,0	116	6,0	RI	
5,10	20xØ	BM20KN0510RIHNO	135°	128,0	138,0	52,0	193	6,0	RI	
5,20	3xØ	BM3KN0520REHNO	140°	20,0	28,0	36,0	66	6,0	RE	
5,20	5xØ	BM5KN0520REHNO	140°	35,0	44,0	36,0	82	6,0	RE	
5,20	8xØ	BM8KN0520REHNO	135°	48,0	57,0	36,0	95	6,0	RE	
5,20	3xØ	BM3KN0520RIHNO	140°	20,0	28,0	36,0	66	6,0	RI	
5,20	5xØ	BM5KN0520RIHNO	140°	35,0	44,0	36,0	82	6,0	RI	
5,20	8xØ	BM8KN0520RIHNO	135°	48,0	57,0	36,0	95	6,0	RI	
5,20	10xØ	BM10KN0520RIHNO	135°	61,0	73,0	36,0	113	6,0	RI	
5,20	12xØ	BM12KN0520RIHNO	135°	70,0	78,0	36,0	116	6,0	RI	
5,20	20xØ	BM20KN0520RIHNO	135°	128,0	138,0	52,0	193	6,0	RI	
5,30	3xØ	BM3KN0530REHNO	140°	20,0	28,0	36,0	66	6,0	RE	
5,30	5xØ	BM5KN0530REHNO	140°	35,0	44,0	36,0	82	6,0	RE	
5,30	8xØ	BM8KN0530REHNO	135°	48,0	57,0	36,0	95	6,0	RE	
5,30	3xØ	BM3KN0530RIHNO	140°	20,0	28,0	36,0	66	6,0	RI	
5,30	5xØ	BM5KN0530RIHNO	140°	35,0	44,0	36,0	82	6,0	RI	
5,30	8xØ	BM8KN0530RIHNO	135°	48,0	57,0	36,0	95	6,0	RI	
5,30	10xØ	BM10KN0530RIHNO	135°	61,0	73,0	36,0	113	6,0	RI	
5,30	12xØ	BM12KN0530RIHNO	135°	70,0	78,0	36,0	116	6,0	RI	
5,30	20xØ	BM20KN0530RIHNO	135°	128,0	138,0	52,0	193	6,0	RI	
5,40	3xØ	BM3KN0540REHNO	140°	20,0	28,0	36,0	66	6,0	RE	
5,40	5xØ	BM5KN0540REHNO	140°	35,0	44,0	36,0	82	6,0	RE	
5,40	8xØ	BM8KN0540REHNO	135°	48,0	57,0	36,0	95	6,0	RE	
5,40	3xØ	BM3KN0540RIHNO	140°	20,0	28,0	36,0	66	6,0	RI	
5,40	5xØ	BM5KN0540RIHNO	140°	35,0	44,0	36,0	82	6,0	RI	
5,40	8xØ	BM8KN0540RIHNO	135°	48,0	57,0	36,0	95	6,0	RI	
5,40	10xØ	BM10KN0540RIHNO	135°	61,0	73,0	36,0	113	6,0	RI	
5,40	12xØ	BM12KN0540RIHNO	135°	70,0	78,0	36,0	116	6,0	RI	
5,40	20xØ	BM20KN0540RIHNO	135°	128,0	138,0	52,0	193	6,0	RI	
5,50	3xØ	BM3KN0550REHNO	140°	20,0	28,0	36,0	66	6,0	RE	
5,50	5xØ	BM5KN0550REHNO	140°	35,0	44,0	36,0	82	6,0	RE	
5,50	8xØ	BM8KN0550REHNO	135°	48,0	57,0	36,0	95	6,0	RE	
5,50	3xØ	BM3KN0550RIHNO	140°	20,0	28,0	36,0	66	6,0	RI	
5,50	5xØ	BM5KN0550RIHNO	140°	35,0	44,0	36,0	82	6,0	RI	
5,50	8xØ	BM8KN0550RIHNO	135°	48,0	57,0	36,0	95	6,0	RI	
5,50	10xØ	BM10KN0550RIHNO	135°	61,0	73,0	36,0	113	6,0	RI	
5,50	12xØ	BM12KN0550RIHNO	135°	70,0	78,0	36,0	116	6,0	RI	
5,50	20xØ	BM20KN0550RIHNO	135°	128,0	138,0	52,0	193	6,0	RI	
5,60	3xØ	BM3KN0560REHNO	140°	20,0	28,0	36,0	66	6,0	RE	
5,60	5xØ	BM5KN0560REHNO	140°	35,0	44,0	36,0	82	6,0	RE	
5,60	8xØ	BM8KN0560REHNO	135°	48,0	57,0	36,0	95	6,0	RE	
5,60	3xØ	BM3KN0560RIHNO	140°	20,0	28,0	36,0	66	6,0	RI	
5,60	5xØ	BM5KN0560RIHNO	140°	35,0	44,0	36,0	82	6,0	RI	

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
5,60	8xØ	BM8KN0560RIHNO	135°	48,0	57,0	36,0	95	6,0	RI	
5,60	10xØ	BM10KN0560RIHNO	135°	61,0	73,0	36,0	113	6,0	RI	
5,60	12xØ	BM12KN0560RIHNO	135°	70,0	78,0	36,0	116	6,0	RI	
5,60	20xØ	BM20KN0560RIHNO	135°	128,0	138,0	52,0	193	6,0	RI	
5,70	3xØ	BM3KN0570REHNO	140°	20,0	28,0	36,0	66	6,0	RE	
5,70	5xØ	BM5KN0570REHNO	140°	35,0	44,0	36,0	82	6,0	RE	
5,70	8xØ	BM8KN0570REHNO	135°	48,0	57,0	36,0	95	6,0	RE	
5,70	3xØ	BM3KN0570RIHNO	140°	20,0	28,0	36,0	66	6,0	RI	
5,70	5xØ	BM5KN0570RIHNO	140°	35,0	44,0	36,0	82	6,0	RI	
5,70	8xØ	BM8KN0570RIHNO	135°	48,0	57,0	36,0	95	6,0	RI	
5,70	10xØ	BM10KN0570RIHNO	135°	61,0	73,0	36,0	113	6,0	RI	
5,70	12xØ	BM12KN0570RIHNO	135°	70,0	78,0	36,0	116	6,0	RI	
5,70	20xØ	BM20KN0570RIHNO	135°	128,0	138,0	52,0	193	6,0	RI	
5,80	3xØ	BM3KN0580REHNO	140°	20,0	28,0	36,0	66	6,0	RE	
5,80	5xØ	BM5KN0580REHNO	140°	35,0	44,0	36,0	82	6,0	RE	
5,80	8xØ	BM8KN0580REHNO	135°	48,0	57,0	36,0	95	6,0	RE	
5,80	3xØ	BM3KN0580RIHNO	140°	20,0	28,0	36,0	66	6,0	RI	
5,80	5xØ	BM5KN0580RIHNO	140°	35,0	44,0	36,0	82	6,0	RI	
5,80	8xØ	BM8KN0580RIHNO	135°	48,0	57,0	36,0	95	6,0	RI	
5,80	10xØ	BM10KN0580RIHNO	135°	61,0	73,0	36,0	113	6,0	RI	
5,80	12xØ	BM12KN0580RIHNO	135°	70,0	78,0	36,0	116	6,0	RI	
5,80	20xØ	BM20KN0580RIHNO	135°	128,0	138,0	52,0	193	6,0	RI	
5,90	3xØ	BM3KN0590REHNO	140°	20,0	28,0	36,0	66	6,0	RE	
5,90	5xØ	BM5KN0590REHNO	140°	35,0	44,0	36,0	82	6,0	RE	
5,90	8xØ	BM8KN0590REHNO	135°	48,0	57,0	36,0	95	6,0	RE	
5,90	3xØ	BM3KN0590RIHNO	140°	20,0	28,0	36,0	66	6,0	RI	
5,90	5xØ	BM5KN0590RIHNO	140°	35,0	44,0	36,0	82	6,0	RI	
5,90	8xØ	BM8KN0590RIHNO	135°	48,0	57,0	36,0	95	6,0	RI	
5,90	10xØ	BM10KN0590RIHNO	135°	61,0	73,0	36,0	113	6,0	RI	
5,90	12xØ	BM12KN0590RIHNO	135°	70,0	78,0	36,0	116	6,0	RI	
5,90	20xØ	BM20KN0590RIHNO	135°	128,0	138,0	52,0	193	6,0	RI	
6,00	3xØ	BM3KN0600REHNO	M7 140°	20,0	28,0	36,0	66	6,0	RE	
6,00	5xØ	BM5KN0600REHNO	M7 140°	35,0	44,0	36,0	82	6,0	RE	
6,00	8xØ	BM8KN0600REHNO	M7 135°	48,0	57,0	36,0	95	6,0	RE	
6,00	3xØ	BM3KN0600RIHNO	M7 140°	20,0	28,0	36,0	66	6,0	RI	
6,00	5xØ	BM5KN0600RIHNO	M7 140°	35,0	44,0	36,0	82	6,0	RI	
6,00	8xØ	BM8KN0600RIHNO	M7 135°	48,0	57,0	36,0	95	6,0	RI	
6,00	10xØ	BM10KN0600RIHNC	M7 135°	61,0	73,0	36,0	113	6,0	RI	
6,00	12xØ	BM12KN0600RIHNO	135°	70,0	78,0	36,0	116	6,0	RI	
6,00	20xØ	BM20KN0600RIHNO	135°	128,0	138,0	52,0	193	6,0	RI	
6,10	3xØ	BM3KN0610REHNO	140°	24,0	34,0	36,0	79	8,0	RE	
6,10	5xØ	BM5KN0610REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
6,10	8xØ	BM8KN0610REHNO	135°	64,0	76,0	36,0	114	8,0	RE	

FURAÇÃO

BMKN/BMSKN

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
6,10	3xØ	BM3KN0610RIHNO	140°	24,0	34,0	36,0	79	8,0	RI	
6,10	5xØ	BM5KN0610RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
6,10	8xØ	BM8KN0610RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
6,10	10xØ	BM10KN0610RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
6,10	12xØ	BM12KN0610RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
6,10	20xØ	BM20KN0610RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
6,20	3xØ	BM3KN0620REHNO	140°	24,0	34,0	36,0	79	8,0	RE	
6,20	5xØ	BM5KN0620REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
6,20	8xØ	BM8KN0620REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
6,20	3xØ	BM3KN0620RIHNO	140°	24,0	34,0	36,0	79	8,0	RI	
6,20	5xØ	BM5KN0620RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
6,20	8xØ	BM8KN0620RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
6,20	10xØ	BM10KN0620RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
6,20	12xØ	BM12KN0620RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
6,20	20xØ	BM20KN0620RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
6,30	3xØ	BM3KN0630REHNO	140°	24,0	34,0	36,0	79	8,0	RE	
6,30	5xØ	BM5KN0630REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
6,30	8xØ	BM8KN0630REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
6,30	3xØ	BM3KN0630RIHNO	140°	24,0	34,0	36,0	79	8,0	RI	
6,30	5xØ	BM5KN0630RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
6,30	8xØ	BM8KN0630RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
6,30	10xØ	BM10KN0630RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
6,30	12xØ	BM12KN0630RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
6,30	20xØ	BM20KN0630RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
6,40	3xØ	BM3KN0640REHNO	140°	24,0	34,0	36,0	79	8,0	RE	
6,40	5xØ	BM5KN0640REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
6,40	8xØ	BM8KN0640REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
6,40	3xØ	BM3KN0640RIHNO	140°	24,0	34,0	36,0	79	8,0	RI	
6,40	5xØ	BM5KN0640RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
6,40	8xØ	BM8KN0640RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
6,40	10xØ	BM10KN0640RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
6,40	12xØ	BM12KN0640RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
6,40	20xØ	BM20KN0640RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
6,50	3xØ	BM3KN0650REHNO	140°	24,0	34,0	36,0	79	8,0	RE	
6,50	5xØ	BM5KN0650REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
6,50	8xØ	BM8KN0650REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
6,50	3xØ	BM3KN0650RIHNO	140°	24,0	34,0	36,0	79	8,0	RI	
6,50	5xØ	BM5KN0650RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
6,50	8xØ	BM8KN0650RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
6,50	10xØ	BM10KN0650RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
6,50	12xØ	BM12KN0650RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
6,50	20xØ	BM20KN0650RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
6,60	3xØ	BM3KN0660REHNO	140°	24,0	34,0	36,0	79	8,0	RE	

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
6,60	5xØ	BM5KN0660REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
6,60	8xØ	BM8KN0660REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
6,60	3xØ	BM3KN0660RIHNO	140°	24,0	34,0	36,0	79	8,0	RI	
6,60	5xØ	BM5KN0660RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
6,60	8xØ	BM8KN0660RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
6,60	10xØ	BM10KN0660RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
6,60	12xØ	BM12KN0660RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
6,60	20xØ	BM20KN0660RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
6,70	3xØ	BM3KN0670REHNO	140°	24,0	34,0	36,0	79	8,0	RE	
6,70	5xØ	BM5KN0670REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
6,70	8xØ	BM8KN0670REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
6,70	3xØ	BM3KN0670RIHNO	140°	24,0	34,0	36,0	79	8,0	RI	
6,70	5xØ	BM5KN0670RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
6,70	8xØ	BM8KN0670RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
6,70	10xØ	BM10KN0670RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
6,70	12xØ	BM12KN0670RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
6,70	20xØ	BM20KN0670RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
6,80	3xØ	BM3KN0680REHNO	M8 140°	24,0	34,0	36,0	79	8,0	RE	
6,80	5xØ	BM5KN0680REHNO	M8 140°	43,0	53,0	36,0	91	8,0	RE	
6,80	8xØ	BM8KN0680REHNO	M8 135°	64,0	76,0	36,0	114	8,0	RE	
6,80	3xØ	BM3KN0680RIHNO	M8 140°	24,0	34,0	36,0	79	8,0	RI	
6,80	5xØ	BM5KN0680RIHNO	M8 140°	43,0	53,0	36,0	91	8,0	RI	
6,80	8xØ	BM8KN0680RIHNO	M8 135°	64,0	76,0	36,0	114	8,0	RI	
6,80	10xØ	BM10KN0680RIHNC	M8 135°	82,0	89,0	36,0	126	8,0	RI	
6,80	12xØ	BM12KN0680RIHNC	M8 135°	94,0	108,0	36,0	146	8,0	RI	
6,80	20xØ	BM20KN0680RIHNC	M8 135°	170,0	184,0	54,0	241	8,0	RI	
6,90	3xØ	BM3KN0690REHNO	140°	24,0	34,0	36,0	79	8,0	RE	
6,90	5xØ	BM5KN0690REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
6,90	8xØ	BM8KN0690REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
6,90	3xØ	BM3KN0690RIHNO	140°	24,0	34,0	36,0	79	8,0	RI	
6,90	5xØ	BM5KN0690RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
6,90	8xØ	BM8KN0690RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
6,90	10xØ	BM10KN0690RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
6,90	12xØ	BM12KN0690RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
6,90	20xØ	BM20KN0690RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
7,00	3xØ	BM3KN0700REHNO	140°	24,0	34,0	36,0	79	8,0	RE	
7,00	5xØ	BM5KN0700REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
7,00	8xØ	BM8KN0700REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
7,00	3xØ	BM3KN0700RIHNO	140°	24,0	34,0	36,0	79	8,0	RI	
7,00	5xØ	BM5KN0700RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
7,00	8xØ	BM8KN0700RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
7,00	10xØ	BM10KN0700RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
7,00	12xØ	BM12KN0700RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	

FURAÇÃO

BMKN/BMSKN

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
7,00	20xØ	BM20KN0700RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
7,10	3xØ	BM3KN0710REHNO	140°	29,0	41,0	36,0	79	8,0	RE	
7,10	5xØ	BM5KN0710REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
7,10	8xØ	BM8KN0710REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
7,10	3xØ	BM3KN0710RIHNO	140°	29,0	41,0	36,0	79	8,0	RI	
7,10	5xØ	BM5KN0710RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
7,10	8xØ	BM8KN0710RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
7,10	10xØ	BM10KN0710RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
7,10	12xØ	BM12KN0710RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
7,10	20xØ	BM20KN0710RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
7,20	3xØ	BM3KN0720REHNO	140°	29,0	41,0	36,0	79	8,0	RE	
7,20	5xØ	BM5KN0720REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
7,20	8xØ	BM8KN0720REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
7,20	3xØ	BM3KN0720RIHNO	140°	29,0	41,0	36,0	79	8,0	RI	
7,20	5xØ	BM5KN0720RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
7,20	8xØ	BM8KN0720RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
7,20	10xØ	BM10KN0720RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
7,20	12xØ	BM12KN0720RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
7,20	20xØ	BM20KN0720RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
7,30	3xØ	BM3KN0730REHNO	140°	29,0	41,0	36,0	79	8,0	RE	
7,30	5xØ	BM5KN0730REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
7,30	8xØ	BM8KN0730REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
7,30	3xØ	BM3KN0730RIHNO	140°	29,0	41,0	36,0	79	8,0	RI	
7,30	5xØ	BM5KN0730RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
7,30	8xØ	BM8KN0730RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
7,30	10xØ	BM10KN0730RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
7,30	12xØ	BM12KN0730RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
7,30	20xØ	BM20KN0730RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
7,40	3xØ	BM3KN0740REHNO	140°	29,0	41,0	36,0	79	8,0	RE	
7,40	5xØ	BM5KN0740REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
7,40	8xØ	BM8KN0740REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
7,40	3xØ	BM3KN0740RIHNO	140°	29,0	41,0	36,0	79	8,0	RI	
7,40	5xØ	BM5KN0740RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
7,40	8xØ	BM8KN0740RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
7,40	10xØ	BM10KN0740RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
7,40	12xØ	BM12KN0740RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
7,40	20xØ	BM20KN0740RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
7,50	3xØ	BM3KN0750REHNO	140°	29,0	41,0	36,0	79	8,0	RE	
7,50	5xØ	BM5KN0750REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
7,50	8xØ	BM8KN0750REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
7,50	3xØ	BM3KN0750RIHNO	140°	29,0	41,0	36,0	79	8,0	RI	
7,50	5xØ	BM5KN0750RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
7,50	8xØ	BM8KN0750RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
7,50	10xØ	BM10KN0750RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
7,50	12xØ	BM12KN0750RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
7,50	20xØ	BM20KN0750RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
7,60	3xØ	BM3KN0760REHNO	140°	29,0	41,0	36,0	79	8,0	RE	
7,60	5xØ	BM5KN0760REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
7,60	8xØ	BM8KN0760REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
7,60	3xØ	BM3KN0760RIHNO	140°	29,0	41,0	36,0	79	8,0	RI	
7,60	5xØ	BM5KN0760RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
7,60	8xØ	BM8KN0760RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
7,60	10xØ	BM10KN0760RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
7,60	12xØ	BM12KN0760RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
7,60	20xØ	BM20KN0760RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
7,70	3xØ	BM3KN0770REHNO	140°	29,0	41,0	36,0	79	8,0	RE	
7,70	5xØ	BM5KN0770REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
7,70	8xØ	BM8KN0770REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
7,70	3xØ	BM3KN0770RIHNO	140°	29,0	41,0	36,0	79	8,0	RI	
7,70	5xØ	BM5KN0770RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
7,70	8xØ	BM8KN0770RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
7,70	10xØ	BM10KN0770RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
7,70	12xØ	BM12KN0770RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
7,70	20xØ	BM20KN0770RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
7,80	3xØ	BM3KN0780REHNO	M9 140°	29,0	41,0	36,0	79	8,0	RE	
7,80	5xØ	BM5KN0780REHNO	M9 140°	43,0	53,0	36,0	91	8,0	RE	
7,80	8xØ	BM8KN0780REHNO	M9 135°	64,0	76,0	36,0	114	8,0	RE	
7,80	3xØ	BM3KN0780RIHNO	M9 140°	29,0	41,0	36,0	79	8,0	RI	
7,80	5xØ	BM5KN0780RIHNO	M9 140°	43,0	53,0	36,0	91	8,0	RI	
7,80	8xØ	BM8KN0780RIHNO	M9 135°	64,0	76,0	36,0	114	8,0	RI	
7,80	10xØ	BM10KN0780RIHNC	M9 135°	82,0	89,0	36,0	126	8,0	RI	
7,80	12xØ	BM12KN0780RIHNC	M9 135°	94,0	108,0	36,0	146	8,0	RI	
7,80	20xØ	BM20KN0780RIHNC	M9 135°	170,0	184,0	54,0	241	8,0	RI	
7,90	3xØ	BM3KN0790REHNO	140°	29,0	41,0	36,0	79	8,0	RE	
7,90	5xØ	BM5KN0790REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
7,90	8xØ	BM8KN0790REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
7,90	3xØ	BM3KN0790RIHNO	140°	29,0	41,0	36,0	79	8,0	RI	
7,90	5xØ	BM5KN0790RIHNO	140°	43,0	53,0	36,0	91	8,0	RI	
7,90	8xØ	BM8KN0790RIHNO	135°	64,0	76,0	36,0	114	8,0	RI	
7,90	10xØ	BM10KN0790RIHNO	135°	82,0	89,0	36,0	126	8,0	RI	
7,90	12xØ	BM12KN0790RIHNO	135°	94,0	108,0	36,0	146	8,0	RI	
7,90	20xØ	BM20KN0790RIHNO	135°	170,0	184,0	54,0	241	8,0	RI	
8,00	3xØ	BM3KN0800REHNO	140°	29,0	41,0	36,0	79	8,0	RE	
8,00	5xØ	BM5KN0800REHNO	140°	43,0	53,0	36,0	91	8,0	RE	
8,00	8xØ	BM8KN0800REHNO	135°	64,0	76,0	36,0	114	8,0	RE	
8,00	3xØ	BM3KN0800RIHNO	140°	29,0	41,0	36,0	79	8,0	RI	

**FURAÇÃO**

**BMKN/BMSKN**

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
8,00	5xØ	BM5KN0800RIHNO	140°	43,0	53,0	36,0	91	8,0	8,0	RI
8,00	8xØ	BM8KN0800RIHNO	135°	64,0	76,0	36,0	114	8,0	8,0	RI
8,00	10xØ	BM10KN0800RIHNO	135°	82,0	89,0	36,0	126	8,0	8,0	RI
8,00	12xØ	BM12KN0800RIHNO	135°	94,0	108,0	36,0	146	8,0	8,0	RI
8,00	20xØ	BM20KN0800RIHNO	135°	170,0	184,0	54,0	241	8,0	8,0	RI
8,10	3xØ	BM3KN0810REHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RE
8,10	5xØ	BM5KN0810REHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RE
8,10	8xØ	BM8KN0810REHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RE
8,10	3xØ	BM3KN0810RIHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RI
8,10	5xØ	BM5KN0810RIHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RI
8,10	8xØ	BM8KN0810RIHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RI
8,10	10xØ	BM10KN0810RIHNO	135°	102,0	113,0	40,0	157	10,0	10,0	RI
8,10	12xØ	BM12KN0810RIHNO	135°	110,0	120,0	40,0	162	10,0	10,0	RI
8,10	20xØ	BM20KN0810RIHNO	135°	210,0	230,0	55,0	288	10,0	10,0	RI
8,20	3xØ	BM3KN0820REHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RE
8,20	5xØ	BM5KN0820REHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RE
8,20	8xØ	BM8KN0820REHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RE
8,20	3xØ	BM3KN0820RIHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RI
8,20	5xØ	BM5KN0820RIHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RI
8,20	8xØ	BM8KN0820RIHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RI
8,20	10xØ	BM10KN0820RIHNO	135°	102,0	113,0	40,0	157	10,0	10,0	RI
8,20	12xØ	BM12KN0820RIHNO	135°	110,0	120,0	40,0	162	10,0	10,0	RI
8,20	20xØ	BM20KN0820RIHNO	135°	210,0	230,0	55,0	288	10,0	10,0	RI
8,30	3xØ	BM3KN0830REHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RE
8,30	5xØ	BM5KN0830REHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RE
8,30	8xØ	BM8KN0830REHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RE
8,30	3xØ	BM3KN0830RIHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RI
8,30	5xØ	BM5KN0830RIHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RI
8,30	8xØ	BM8KN0830RIHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RI
8,30	10xØ	BM10KN0830RIHNO	135°	102,0	113,0	40,0	157	10,0	10,0	RI
8,30	12xØ	BM12KN0830RIHNO	135°	110,0	120,0	40,0	162	10,0	10,0	RI
8,30	20xØ	BM20KN0830RIHNO	135°	210,0	230,0	55,0	288	10,0	10,0	RI
8,40	3xØ	BM3KN0840REHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RE
8,40	5xØ	BM5KN0840REHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RE
8,40	8xØ	BM8KN0840REHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RE
8,40	3xØ	BM3KN0840RIHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RI
8,40	5xØ	BM5KN0840RIHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RI
8,40	8xØ	BM8KN0840RIHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RI
8,40	10xØ	BM10KN0840RIHNO	135°	102,0	113,0	40,0	157	10,0	10,0	RI
8,40	12xØ	BM12KN0840RIHNO	135°	110,0	120,0	40,0	162	10,0	10,0	RI
8,40	20xØ	BM20KN0840RIHNO	135°	210,0	230,0	55,0	288	10,0	10,0	RI
8,50	3xØ	BM3KN0850REHNO M10	140°	35,0	47,0	40,0	89	10,0	10,0	RE
8,50	5xØ	BM5KN0850REHNO M10	140°	49,0	61,0	40,0	103	10,0	10,0	RE

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
8,50	8xØ	BM8KN0850REHNO M10	135°	80,0	95,0	40,0	142	10,0	10,0	RE
8,50	3xØ	BM3KN0850RIHNO M10	140°	35,0	47,0	40,0	89	10,0	10,0	RI
8,50	5xØ	BM5KN0850RIHNO M10	140°	49,0	61,0	40,0	103	10,0	10,0	RI
8,50	8xØ	BM8KN0850RIHNO M10	135°	80,0	95,0	40,0	142	10,0	10,0	RI
8,50	10xØ	BM10KN0850RIHNCM10	135°	102,0	113,0	40,0	157	10,0	10,0	RI
8,50	12xØ	BM12KN0850RIHNCM10	135°	110,0	120,0	40,0	162	10,0	10,0	RI
8,50	20xØ	BM20KN0850RIHNCM10	135°	210,0	230,0	55,0	288	10,0	10,0	RI
8,60	3xØ	BM3KN0860REHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RE
8,60	5xØ	BM5KN0860REHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RE
8,60	8xØ	BM8KN0860REHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RE
8,60	3xØ	BM3KN0860RIHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RI
8,60	5xØ	BM5KN0860RIHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RI
8,60	8xØ	BM8KN0860RIHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RI
8,60	10xØ	BM10KN0860RIHNO	135°	102,0	113,0	40,0	157	10,0	10,0	RI
8,60	12xØ	BM12KN0860RIHNO	135°	110,0	120,0	40,0	162	10,0	10,0	RI
8,60	20xØ	BM20KN0860RIHNO	135°	210,0	230,0	55,0	288	10,0	10,0	RI
8,70	3xØ	BM3KN0870REHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RE
8,70	5xØ	BM5KN0870REHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RE
8,70	8xØ	BM8KN0870REHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RE
8,70	3xØ	BM3KN0870RIHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RI
8,70	5xØ	BM5KN0870RIHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RI
8,70	8xØ	BM8KN0870RIHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RI
8,70	10xØ	BM10KN0870RIHNO	135°	102,0	113,0	40,0	157	10,0	10,0	RI
8,70	12xØ	BM12KN0870RIHNO	135°	110,0	120,0	40,0	162	10,0	10,0	RI
8,70	20xØ	BM20KN0870RIHNO	135°	210,0	230,0	55,0	288	10,0	10,0	RI
8,80	3xØ	BM3KN0880REHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RE
8,80	5xØ	BM5KN0880REHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RE
8,80	8xØ	BM8KN0880REHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RE
8,80	3xØ	BM3KN0880RIHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RI
8,80	5xØ	BM5KN0880RIHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RI
8,80	8xØ	BM8KN0880RIHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RI
8,80	10xØ	BM10KN0880RIHNO	135°	102,0	113,0	40,0	157	10,0	10,0	RI
8,80	12xØ	BM12KN0880RIHNO	135°	110,0	120,0	40,0	162	10,0	10,0	RI
8,80	20xØ	BM20KN0880RIHNO	135°	210,0	230,0	55,0	288	10,0	10,0	RI
8,90	3xØ	BM3KN0890REHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RE
8,90	5xØ	BM5KN0890REHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RE
8,90	8xØ	BM8KN0890REHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RE
8,90	3xØ	BM3KN0890RIHNO	140°	35,0	47,0	40,0	89	10,0	10,0	RI
8,90	5xØ	BM5KN0890RIHNO	140°	49,0	61,0	40,0	103	10,0	10,0	RI
8,90	8xØ	BM8KN0890RIHNO	135°	80,0	95,0	40,0	142	10,0	10,0	RI
8,90	10xØ	BM10KN0890RIHNO	135°	102,0	113,0	40,0	157	10,0	10,0	RI
8,90	12xØ	BM12KN0890RIHNO	135°	110,0	120,0	40,0	162	10,0	10,0	RI
8,90	20xØ	BM20KN0890RIHNO	135°	210,0	230,0	55,0	288	10,0	10,0	RI

**FURAÇÃO**

**BMKN/BMSKN**

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
9,00	3xØ	BM3KN0900REHNO	140°	35,0	47,0	40,0	89	10,0	RE	
9,00	5xØ	BM5KN0900REHNO	140°	49,0	61,0	40,0	103	10,0	RE	
9,00	8xØ	BM8KN0900REHNO	135°	80,0	95,0	40,0	142	10,0	RE	
9,00	3xØ	BM3KN0900RIHNO	140°	35,0	47,0	40,0	89	10,0	RI	
9,00	5xØ	BM5KN0900RIHNO	140°	49,0	61,0	40,0	103	10,0	RI	
9,00	8xØ	BM8KN0900RIHNO	135°	80,0	95,0	40,0	142	10,0	RI	
9,00	10xØ	BM10KN0900RIHNO	135°	102,0	113,0	40,0	157	10,0	RI	
9,00	12xØ	BM12KN0900RIHNO	135°	110,0	120,0	40,0	162	10,0	RI	
9,00	20xØ	BM20KN0900RIHNO	135°	210,0	230,0	55,0	288	10,0	RI	
9,10	3xØ	BM3KN0910REHNO	140°	35,0	47,0	40,0	89	10,0	RE	
9,10	5xØ	BM5KN0910REHNO	140°	49,0	61,0	40,0	103	10,0	RE	
9,10	8xØ	BM8KN0910REHNO	135°	80,0	95,0	40,0	142	10,0	RE	
9,10	3xØ	BM3KN0910RIHNO	140°	35,0	47,0	40,0	89	10,0	RI	
9,10	5xØ	BM5KN0910RIHNO	140°	49,0	61,0	40,0	103	10,0	RI	
9,10	8xØ	BM8KN0910RIHNO	135°	80,0	95,0	40,0	142	10,0	RI	
9,10	10xØ	BM10KN0910RIHNO	135°	102,0	113,0	40,0	157	10,0	RI	
9,10	12xØ	BM12KN0910RIHNO	135°	110,0	120,0	40,0	162	10,0	RI	
9,10	20xØ	BM20KN0910RIHNO	135°	210,0	230,0	55,0	288	10,0	RI	
9,20	3xØ	BM3KN0920REHNO	140°	35,0	47,0	40,0	89	10,0	RE	
9,20	5xØ	BM5KN0920REHNO	140°	49,0	61,0	40,0	103	10,0	RE	
9,20	8xØ	BM8KN0920REHNO	135°	80,0	95,0	40,0	142	10,0	RE	
9,20	3xØ	BM3KN0920RIHNO	140°	35,0	47,0	40,0	89	10,0	RI	
9,20	5xØ	BM5KN0920RIHNO	140°	49,0	61,0	40,0	103	10,0	RI	
9,20	8xØ	BM8KN0920RIHNO	135°	80,0	95,0	40,0	142	10,0	RI	
9,20	10xØ	BM10KN0920RIHNO	135°	102,0	113,0	40,0	157	10,0	RI	
9,20	12xØ	BM12KN0920RIHNO	135°	110,0	120,0	40,0	162	10,0	RI	
9,20	20xØ	BM20KN0920RIHNO	135°	210,0	230,0	55,0	288	10,0	RI	
9,30	3xØ	BM3KN0930REHNO	140°	35,0	47,0	40,0	89	10,0	RE	
9,30	5xØ	BM5KN0930REHNO	140°	49,0	61,0	40,0	103	10,0	RE	
9,30	8xØ	BM8KN0930REHNO	135°	80,0	95,0	40,0	142	10,0	RE	
9,30	3xØ	BM3KN0930RIHNO	140°	35,0	47,0	40,0	89	10,0	RI	
9,30	5xØ	BM5KN0930RIHNO	140°	49,0	61,0	40,0	103	10,0	RI	
9,30	8xØ	BM8KN0930RIHNO	135°	80,0	95,0	40,0	142	10,0	RI	
9,30	10xØ	BM10KN0930RIHNO	135°	102,0	113,0	40,0	157	10,0	RI	
9,30	12xØ	BM12KN0930RIHNO	135°	110,0	120,0	40,0	162	10,0	RI	
9,30	20xØ	BM20KN0930RIHNO	135°	210,0	230,0	55,0	288	10,0	RI	
9,40	3xØ	BM3KN0940REHNO	140°	35,0	47,0	40,0	89	10,0	RE	
9,40	5xØ	BM5KN0940REHNO	140°	49,0	61,0	40,0	103	10,0	RE	
9,40	8xØ	BM8KN0940REHNO	135°	80,0	95,0	40,0	142	10,0	RE	
9,40	3xØ	BM3KN0940RIHNO	140°	35,0	47,0	40,0	89	10,0	RI	
9,40	5xØ	BM5KN0940RIHNO	140°	49,0	61,0	40,0	103	10,0	RI	
9,40	8xØ	BM8KN0940RIHNO	135°	80,0	95,0	40,0	142	10,0	RI	
9,40	10xØ	BM10KN0940RIHNO	135°	102,0	113,0	40,0	157	10,0	RI	

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
9,40	12xØ	BM12KN0940RIHNO	135°	110,0	120,0	40,0	162	10,0	RI	
9,40	20xØ	BM20KN0940RIHNO	135°	210,0	230,0	55,0	288	10,0	RI	
9,50	3xØ	BM3KN0950REHNO M11	140°	35,0	47,0	40,0	89	10,0	RE	
9,50	5xØ	BM5KN0950REHNO M11	140°	49,0	61,0	40,0	103	10,0	RE	
9,50	8xØ	BM8KN0950REHNO M11	135°	80,0	95,0	40,0	142	10,0	RE	
9,50	3xØ	BM3KN0950RIHNO M11	140°	35,0	47,0	40,0	89	10,0	RI	
9,50	5xØ	BM5KN0950RIHNO M11	140°	49,0	61,0	40,0	103	10,0	RI	
9,50	8xØ	BM8KN0950RIHNO M11	135°	80,0	95,0	40,0	142	10,0	RI	
9,50	10xØ	BM10KN0950RIHNCM11	135°	102,0	113,0	40,0	157	10,0	RI	
9,50	12xØ	BM12KN0950RIHNCM11	135°	110,0	120,0	40,0	162	10,0	RI	
9,50	20xØ	BM20KN0950RIHNCM11	135°	210,0	230,0	55,0	288	10,0	RI	
9,60	3xØ	BM3KN0960REHNO	140°	35,0	47,0	40,0	89	10,0	RE	
9,60	5xØ	BM5KN0960REHNO	140°	49,0	61,0	40,0	103	10,0	RE	
9,60	8xØ	BM8KN0960REHNO	135°	80,0	95,0	40,0	142	10,0	RE	
9,60	3xØ	BM3KN0960RIHNO	140°	35,0	47,0	40,0	89	10,0	RI	
9,60	5xØ	BM5KN0960RIHNO	140°	49,0	61,0	40,0	103	10,0	RI	
9,60	8xØ	BM8KN0960RIHNO	135°	80,0	95,0	40,0	142	10,0	RI	
9,60	10xØ	BM10KN0960RIHNO	135°	102,0	113,0	40,0	157	10,0	RI	
9,60	12xØ	BM12KN0960RIHNO	135°	110,0	120,0	40,0	162	10,0	RI	
9,60	20xØ	BM20KN0960RIHNO	135°	210,0	230,0	55,0	288	10,0	RI	
9,70	3xØ	BM3KN0970REHNO	140°	35,0	47,0	40,0	89	10,0	RE	
9,70	5xØ	BM5KN0970REHNO	140°	49,0	61,0	40,0	103	10,0	RE	
9,70	8xØ	BM8KN0970REHNO	135°	80,0	95,0	40,0	142	10,0	RE	
9,70	3xØ	BM3KN0970RIHNO	140°	35,0	47,0	40,0	89	10,0	RI	
9,70	5xØ	BM5KN0970RIHNO	140°	49,0	61,0	40,0	103	10,0	RI	
9,70	8xØ	BM8KN0970RIHNO	135°	80,0	95,0	40,0	142	10,0	RI	
9,70	10xØ	BM10KN0970RIHNO	135°	102,0	113,0	40,0	157	10,0	RI	
9,70	12xØ	BM12KN0970RIHNO	135°	110,0	120,0	40,0	162	10,0	RI	
9,70	20xØ	BM20KN0970RIHNO	135°	210,0	230,0	55,0	288	10,0	RI	
9,80	3xØ	BM3KN0980REHNO	140°	35,0	47,0	40,0	89	10,0	RE	
9,80	5xØ	BM5KN0980REHNO	140°	49,0	61,0	40,0	103	10,0	RE	
9,80	8xØ	BM8KN0980REHNO	135°	80,0	95,0	40,0	142	10,0	RE	
9,80	3xØ	BM3KN0980RIHNO	140°	35,0	47,0	40,0	89	10,0	RI	
9,80	5xØ	BM5KN0980RIHNO	140°	49,0	61,0	40,0	103	10,0	RI	
9,80	8xØ	BM8KN0980RIHNO	135°	80,0	95,0	40,0	142	10,0	RI	
9,80	10xØ	BM10KN0980RIHNO	135°	102,0	113,0	40,0	157	10,0	RI	
9,80	12xØ	BM12KN0980RIHNO	135°	110,0	120,0	40,0	162	10,0	RI	
9,80	20xØ	BM20KN0980RIHNO	135°	210,0	230,0	55,0	288	10,0	RI	
9,90	3xØ	BM3KN0990REHNO	140°	35,0	47,0	40,0	89	10,0	RE	
9,90	5xØ	BM5KN0990REHNO	140°	49,0	61,0	40,0	103	10,0	RE	
9,90	8xØ	BM8KN0990REHNO	135°	80,0	95,0	40,0	142	10,0	RE	
9,90	3xØ	BM3KN0990RIHNO	140°	35,0	47,0	40,0	89	10,0	RI	
9,90	5xØ	BM5KN0990RIHNO	140°	49,0	61,0	40,0	103	10,0	RI	

FURAÇÃO

BMKN/BMSKN

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
9,90	8xØ	BM8KN0990RIHNO	135°	80,0	95,0	40,0	142	10,0	RI	
9,90	10xØ	BM10KN0990RIHNO	135°	102,0	113,0	40,0	157	10,0	RI	
9,90	12xØ	BM12KN0990RIHNO	135°	110,0	120,0	40,0	162	10,0	RI	
9,90	20xØ	BM20KN0990RIHNO	135°	210,0	230,0	55,0	288	10,0	RI	
10,00	3xØ	BM3KN1000REHNO	140°	35,0	47,0	40,0	89	10,0	RE	
10,00	5xØ	BM5KN1000REHNO	140°	49,0	61,0	40,0	103	10,0	RE	
10,00	8xØ	BM8KN1000REHNO	135°	80,0	95,0	40,0	142	10,0	RE	
10,00	3xØ	BM3KN1000RIHNO	140°	35,0	47,0	40,0	89	10,0	RI	
10,00	5xØ	BM5KN1000RIHNO	140°	49,0	61,0	40,0	103	10,0	RI	
10,00	8xØ	BM8KN1000RIHNO	135°	80,0	95,0	40,0	142	10,0	RI	
10,00	10xØ	BM10KN1000RIHNO	135°	102,0	113,0	40,0	157	10,0	RI	
10,00	12xØ	BM12KN1000RIHNO	135°	110,0	120,0	40,0	162	10,0	RI	
10,00	20xØ	BM20KN1000RIHNO	135°	210,0	230,0	55,0	288	10,0	RI	
10,10	3xØ	BM3KN1010REHNO	140°	40,0	55,0	45,0	102	12,0	RE	
10,10	5xØ	BM5KN1010REHNO	140°	56,0	71,0	45,0	118	12,0	RE	
10,10	8xØ	BM8KN1010REHNO	135°	96,0	114,0	45,0	162	12,0	RE	
10,10	3xØ	BM3KN1010RIHNO	140°	40,0	55,0	45,0	102	12,0	RI	
10,10	5xØ	BM5KN1010RIHNO	140°	56,0	71,0	45,0	118	12,0	RI	
10,10	8xØ	BM8KN1010RIHNO	135°	96,0	114,0	45,0	162	12,0	RI	
10,10	10xØ	BM10KN1010RIHNO	135°	122,0	138,8	45,0	187	12,0	RI	
10,10	12xØ	BM12KN1010RIHNO	135°	142,0	156,0	45,0	204	12,0	RI	
10,10	20xØ	BM20KN1010RIHNO	135°	250,0	276,0	62,0	341	12,0	RI	
10,20	3xØ	BM3KN1020REHNO M12	140°	40,0	55,0	45,0	102	12,0	RE	
10,20	5xØ	BM5KN1020REHNO M12	140°	56,0	71,0	45,0	118	12,0	RE	
10,20	8xØ	BM8KN1020REHNO M12	135°	96,0	114,0	45,0	162	12,0	RE	
10,20	3xØ	BM3KN1020RIHNO M12	140°	40,0	55,0	45,0	102	12,0	RI	
10,20	5xØ	BM5KN1020RIHNO M12	140°	56,0	71,0	45,0	118	12,0	RI	
10,20	8xØ	BM8KN1020RIHNO M12	135°	96,0	114,0	45,0	162	12,0	RI	
10,20	10xØ	BM10KN1020RIHNCM12	135°	122,0	138,8	45,0	187	12,0	RI	
10,20	12xØ	BM12KN1020RIHNCM12	135°	142,0	156,0	45,0	204	12,0	RI	
10,20	20xØ	BM20KN1020RIHNCM12	135°	250,0	276,0	62,0	341	12,0	RI	
10,30	3xØ	BM3KN1030REHNO	140°	40,0	55,0	45,0	102	12,0	RE	
10,30	5xØ	BM5KN1030REHNO	140°	56,0	71,0	45,0	118	12,0	RE	
10,30	8xØ	BM8KN1030REHNO	135°	96,0	114,0	45,0	162	12,0	RE	
10,30	3xØ	BM3KN1030RIHNO	140°	40,0	55,0	45,0	102	12,0	RI	
10,30	5xØ	BM5KN1030RIHNO	140°	56,0	71,0	45,0	118	12,0	RI	
10,30	8xØ	BM8KN1030RIHNO	135°	96,0	114,0	45,0	162	12,0	RI	
10,30	10xØ	BM10KN1030RIHNO	135°	122,0	138,8	45,0	187	12,0	RI	
10,30	12xØ	BM12KN1030RIHNO	135°	142,0	156,0	45,0	204	12,0	RI	
10,30	20xØ	BM20KN1030RIHNO	135°	250,0	276,0	62,0	341	12,0	RI	
10,40	3xØ	BM3KN1040REHNO	140°	40,0	55,0	45,0	102	12,0	RE	
10,40	5xØ	BM5KN1040REHNO	140°	56,0	71,0	45,0	118	12,0	RE	
10,40	8xØ	BM8KN1040REHNO	135°	96,0	114,0	45,0	162	12,0	RE	

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
10,40	3xØ	BM3KN1040RIHNO	140°	40,0	55,0	45,0	102	12,0	RI	
10,40	5xØ	BM5KN1040RIHNO	140°	56,0	71,0	45,0	118	12,0	RI	
10,40	8xØ	BM8KN1040RIHNO	135°	96,0	114,0	45,0	162	12,0	RI	
10,40	10xØ	BM10KN1040RIHNO	135°	122,0	138,8	45,0	187	12,0	RI	
10,40	12xØ	BM12KN1040RIHNO	135°	142,0	156,0	45,0	204	12,0	RI	
10,40	20xØ	BM20KN1040RIHNO	135°	250,0	276,0	62,0	341	12,0	RI	
10,50	3xØ	BM3KN1050REHNO	140°	40,0	55,0	45,0	102	12,0	RE	
10,50	5xØ	BM5KN1050REHNO	140°	56,0	71,0	45,0	118	12,0	RE	
10,50	8xØ	BM8KN1050REHNO	135°	96,0	114,0	45,0	162	12,0	RE	
10,50	3xØ	BM3KN1050RIHNO	140°	40,0	55,0	45,0	102	12,0	RI	
10,50	5xØ	BM5KN1050RIHNO	140°	56,0	71,0	45,0	118	12,0	RI	
10,50	8xØ	BM8KN1050RIHNO	135°	96,0	114,0	45,0	162	12,0	RI	
10,50	10xØ	BM10KN1050RIHNO	135°	122,0	138,8	45,0	187	12,0	RI	
10,50	12xØ	BM12KN1050RIHNO	135°	142,0	156,0	45,0	204	12,0	RI	
10,50	20xØ	BM20KN1050RIHNO	135°	250,0	276,0	62,0	341	12,0	RI	
10,60	3xØ	BM3KN1060REHNO	140°	40,0	55,0	45,0	102	12,0	RE	
10,60	5xØ	BM5KN1060REHNO	140°	56,0	71,0	45,0	118	12,0	RE	
10,60	8xØ	BM8KN1060REHNO	135°	96,0	114,0	45,0	162	12,0	RE	
10,60	3xØ	BM3KN1060RIHNO	140°	40,0	55,0	45,0	102	12,0	RI	
10,60	5xØ	BM5KN1060RIHNO	140°	56,0	71,0	45,0	118	12,0	RI	
10,60	8xØ	BM8KN1060RIHNO	135°	96,0	114,0	45,0	162	12,0	RI	
10,60	10xØ	BM10KN1060RIHNO	135°	122,0	138,8	45,0	187	12,0	RI	
10,60	12xØ	BM12KN1060RIHNO	135°	142,0	156,0	45,0	204	12,0	RI	
10,60	20xØ	BM20KN1060RIHNO	135°	250,0	276,0	62,0	341	12,0	RI	
10,70	3xØ	BM3KN1070REHNO	140°	40,0	55,0	45,0	102	12,0	RE	
10,70	5xØ	BM5KN1070REHNO	140°	56,0	71,0	45,0	118	12,0	RE	
10,70	8xØ	BM8KN1070REHNO	135°	96,0	114,0	45,0	162	12,0	RE	
10,70	3xØ	BM3KN1070RIHNO	140°	40,0	55,0	45,0	102	12,0	RI	
10,70	5xØ	BM5KN1070RIHNO	140°	56,0	71,0	45,0	118	12,0	RI	
10,70	8xØ	BM8KN1070RIHNO	135°	96,0	114,0	45,0	162	12,0	RI	
10,70	10xØ	BM10KN1070RIHNO	135°	122,0	138,8	45,0	187	12,0	RI	
10,70	12xØ	BM12KN1070RIHNO	135°	142,0	156,0	45,0	204	12,0	RI	
10,70	20xØ	BM20KN1070RIHNO	135°	250,0	276,0	62,0	341	12,0	RI	
10,80	3xØ	BM3KN1080REHNO	140°	40,0	55,0	45,0	102	12,0	RE	
10,80	5xØ	BM5KN1080REHNO	140°	56,0	71,0	45,0	118	12,0	RE	
10,80	8xØ	BM8KN1080REHNO	135°	96,0	114,0	45,0	162	12,0	RE	
10,80	3xØ	BM3KN1080RIHNO	140°	40,0	55,0	45,0	102	12,0	RI	
10,80	5xØ	BM5KN1080RIHNO	140°	56,0	71,0	45,0	118	12,0	RI	
10,80	8xØ	BM8KN1080RIHNO	135°	96,0	114,0	45,0	162	12,0	RI	
10,80	10xØ	BM10KN1080RIHNO	135°	122,0	138,8	45,0	187	12,0	RI	
10,80	12xØ	BM12KN1080RIHNO	135°	142,0	156,0	45,0	204	12,0	RI	
10,80	20xØ	BM20KN1080RIHNO	135°	250,0	276,0	62,0	341	12,0	RI	
10,90	3xØ	BM3KN1090REHNO	140°	40,0	55,0	45,0	102	12,0	RE	





FURAÇÃO

BMKN/BMSKN

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
11,80	10xØ	BM10KN1180RIHNO	135°	122,0	138,8	45,0	187	12,0	RI	
11,80	12xØ	BM12KN1180RIHNO	135°	142,0	156,0	45,0	204	12,0	RI	
11,80	20xØ	BM20KN1180RIHNO	135°	250,0	276,0	62,0	341	12,0	RI	
11,90	3xØ	BM3KN1190REHNO	140°	40,0	55,0	45,0	102	12,0	RE	
11,90	5xØ	BM5KN1190REHNO	140°	56,0	71,0	45,0	118	12,0	RE	
11,90	8xØ	BM8KN1190REHNO	135°	96,0	114,0	45,0	162	12,0	RE	
11,90	3xØ	BM3KN1190RIHNO	140°	40,0	55,0	45,0	102	12,0	RI	
11,90	5xØ	BM5KN1190RIHNO	140°	56,0	71,0	45,0	118	12,0	RI	
11,90	8xØ	BM8KN1190RIHNO	135°	96,0	114,0	45,0	162	12,0	RI	
11,90	10xØ	BM10KN1190RIHNO	135°	122,0	138,8	45,0	187	12,0	RI	
11,90	12xØ	BM12KN1190RIHNO	135°	142,0	156,0	45,0	204	12,0	RI	
11,90	20xØ	BM20KN1190RIHNO	135°	250,0	276,0	62,0	341	12,0	RI	
12,00	3xØ	BM3KN1200REHNO M14	140°	40,0	55,0	45,0	102	12,0	RE	
12,00	5xØ	BM5KN1200REHNO M14	140°	56,0	71,0	45,0	118	12,0	RE	
12,00	8xØ	BM8KN1200REHNO M14	135°	96,0	114,0	45,0	162	12,0	RE	
12,00	3xØ	BM3KN11200RIHNCM14	140°	40,0	55,0	45,0	102	12,0	RI	
12,00	5xØ	BM5KN1200RIHNO M14	140°	56,0	71,0	45,0	118	12,0	RI	
12,00	8xØ	BM8KN1200RIHNO M14	135°	96,0	114,0	45,0	162	12,0	RI	
12,00	10xØ	BM10KN1200RIHNCM14	135°	122,0	138,8	45,0	187	12,0	RI	
12,00	12xØ	BM12KN1200RIHNCM14	135°	142,0	156,0	45,0	204	12,0	RI	
12,00	20xØ	BM20KN1200RIHNCM14	135°	250,0	276,0	62,0	341	12,0	RI	
12,10	3xØ	BM3KN1210REHNO	140°	43,0	60,0	45,0	107	14,0	RE	
12,10	5xØ	BM5KN1210REHNO	140°	60,0	77,0	45,0	124	14,0	RE	
12,10	8xØ	BM8KN1210REHNO	135°	112,0	133,0	45,0	178	14,0	RE	
12,10	3xØ	BM3KN1210RIHNO	140°	43,0	60,0	45,0	107	14,0	RI	
12,10	5xØ	BM5KN1210RIHNO	140°	60,0	77,0	45,0	124	14,0	RI	
12,10	8xØ	BM8KN1210RIHNO	135°	112,0	133,0	45,0	178	14,0	RI	
12,10	10xØ	BM10KN1210RIHNO	135°	142,0	165,0	45,0	214	14,0	RI	
12,10	12xØ	BM12KN1210RIHNO	135°	166,0	182,0	45,0	230	14,0	RI	
12,10	20xØ	BM20KN1210RIHNO	135°	290,0	322,0	64,0	389	14,0	RI	
12,20	3xØ	BM3KN1220REHNO	140°	43,0	60,0	45,0	107	14,0	RE	
12,20	5xØ	BM5KN1220REHNO	140°	60,0	77,0	45,0	124	14,0	RE	
12,20	8xØ	BM8KN1220REHNO	135°	112,0	133,0	45,0	178	14,0	RE	
12,20	3xØ	BM3KN1220RIHNO	140°	43,0	60,0	45,0	107	14,0	RI	
12,20	5xØ	BM5KN1220RIHNO	140°	60,0	77,0	45,0	124	14,0	RI	
12,20	8xØ	BM8KN1220RIHNO	135°	112,0	133,0	45,0	178	14,0	RI	
12,20	10xØ	BM10KN1220RIHNO	135°	142,0	165,0	45,0	214	14,0	RI	
12,20	12xØ	BM12KN1220RIHNO	135°	166,0	182,0	45,0	230	14,0	RI	
12,20	20xØ	BM20KN1220RIHNO	135°	290,0	322,0	64,0	389	14,0	RI	
12,30	3xØ	BM3KN1230REHNO	140°	43,0	60,0	45,0	107	14,0	RE	
12,30	5xØ	BM5KN1230REHNO	140°	60,0	77,0	45,0	124	14,0	RE	
12,30	8xØ	BM8KN1230REHNO	135°	112,0	133,0	45,0	178	14,0	RE	
12,30	3xØ	BM3KN1230RIHNO	140°	43,0	60,0	45,0	107	14,0	RI	

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
12,30	5xØ	BM5KN1230RIHNO	140°	60,0	77,0	45,0	124	14,0	RI	
12,30	8xØ	BM8KN1230RIHNO	135°	112,0	133,0	45,0	178	14,0	RI	
12,30	10xØ	BM10KN1230RIHNO	135°	142,0	165,0	45,0	214	14,0	RI	
12,30	12xØ	BM12KN1230RIHNO	135°	166,0	182,0	45,0	230	14,0	RI	
12,30	20xØ	BM20KN1230RIHNO	135°	290,0	322,0	64,0	389	14,0	RI	
12,40	3xØ	BM3KN1240REHNO	140°	43,0	60,0	45,0	107	14,0	RE	
12,40	5xØ	BM5KN1240REHNO	140°	60,0	77,0	45,0	124	14,0	RE	
12,40	8xØ	BM8KN1240REHNO	135°	112,0	133,0	45,0	178	14,0	RE	
12,40	3xØ	BM3KN1240RIHNO	140°	43,0	60,0	45,0	107	14,0	RI	
12,40	5xØ	BM5KN1240RIHNO	140°	60,0	77,0	45,0	124	14,0	RI	
12,40	8xØ	BM8KN1240RIHNO	135°	112,0	133,0	45,0	178	14,0	RI	
12,40	10xØ	BM10KN1240RIHNO	135°	142,0	165,0	45,0	214	14,0	RI	
12,40	12xØ	BM12KN1240RIHNO	135°	166,0	182,0	45,0	230	14,0	RI	
12,40	20xØ	BM20KN1240RIHNO	135°	290,0	322,0	64,0	389	14,0	RI	
12,50	3xØ	BM3KN1250REHNO	140°	43,0	60,0	45,0	107	14,0	RE	
12,50	5xØ	BM5KN1250REHNO	140°	60,0	77,0	45,0	124	14,0	RE	
12,50	8xØ	BM8KN1250REHNO	135°	112,0	133,0	45,0	178	14,0	RE	
12,50	3xØ	BM3KN1250RIHNO	140°	43,0	60,0	45,0	107	14,0	RI	
12,50	5xØ	BM5KN1250RIHNO	140°	60,0	77,0	45,0	124	14,0	RI	
12,50	8xØ	BM8KN1250RIHNO	135°	112,0	133,0	45,0	178	14,0	RI	
12,50	10xØ	BM10KN1250RIHNO	135°	142,0	165,0	45,0	214	14,0	RI	
12,50	12xØ	BM12KN1250RIHNO	135°	166,0	182,0	45,0	230	14,0	RI	
12,50	20xØ	BM20KN1250RIHNO	135°	290,0	322,0	64,0	389	14,0	RI	
12,60	3xØ	BM3KN1260REHNO	140°	43,0	60,0	45,0	107	14,0	RE	
12,60	5xØ	BM5KN1260REHNO	140°	60,0	77,0	45,0	124	14,0	RE	
12,60	8xØ	BM8KN1260REHNO	135°	112,0	133,0	45,0	178	14,0	RE	
12,60	3xØ	BM3KN1260RIHNO	140°	43,0	60,0	45,0	107	14,0	RI	
12,60	5xØ	BM5KN1260RIHNO	140°	60,0	77,0	45,0	124	14,0	RI	
12,60	8xØ	BM8KN1260RIHNO	135°	112,0	133,0	45,0	178	14,0	RI	
12,60	10xØ	BM10KN1260RIHNO	135°	142,0	165,0	45,0	214	14,0	RI	
12,60	12xØ	BM12KN1260RIHNO	135°	166,0	182,0	45,0	230	14,0	RI	
12,60	20xØ	BM20KN1260RIHNO	135°	290,0	322,0	64,0	389	14,0	RI	
12,70	3xØ	BM3KN1270REHNO	140°	43,0	60,0	45,0	107	14,0	RE	
12,70	5xØ	BM5KN1270REHNO	140°	60,0	77,0	45,0	124	14,0	RE	
12,70	8xØ	BM8KN1270REHNO	135°	112,0	133,0	45,0	178	14,0	RE	
12,70	3xØ	BM3KN1270RIHNO	140°	43,0	60,0	45,0	107	14,0	RI	
12,70	5xØ	BM5KN1270RIHNO	140°	60,0	77,0	45,0	124	14,0	RI	
12,70	8xØ	BM8KN1270RIHNO	135°	112,0	133,0	45,0	178	14,0	RI	
12,70	10xØ	BM10KN1270RIHNO	135°	142,0	165,0	45,0	214	14,0	RI	
12,70	12xØ	BM12KN1270RIHNO	135°	166,0	182,0	45,0	230	14,0	RI	
12,70	20xØ	BM20KN1270RIHNO	135°	290,0	322,0	64,0	389	14,0	RI	
12,80	3xØ	BM3KN1280REHNO	140°	43,0	60,0	45,0	107	14,0	RE	
12,80	5xØ	BM5KN1280REHNO	140°	60,0	77,0	45,0	124	14,0	RE	



**FURAÇÃO**

**BMKN/BMSKN**

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
13,70	12xØ	BM12KN1370RIHNO	135°	166,0	182,0	45,0	230	14,0	14,0	RI
13,70	20xØ	BM20KN1370RIHNO	135°	290,0	322,0	64,0	389	14,0	14,0	RI
13,80	3xØ	BM3KN1380REHNO	140°	43,0	60,0	45,0	107	14,0	14,0	RE
13,80	5xØ	BM5KN1380REHNO	140°	60,0	77,0	45,0	124	14,0	14,0	RE
13,80	8xØ	BM8KN1380REHNO	135°	112,0	133,0	45,0	178	14,0	14,0	RE
13,80	3xØ	BM3KN1380RIHNO	140°	43,0	60,0	45,0	107	14,0	14,0	RI
13,80	5xØ	BM5KN1380RIHNO	140°	60,0	77,0	45,0	124	14,0	14,0	RI
13,80	8xØ	BM8KN1380RIHNO	135°	112,0	133,0	45,0	178	14,0	14,0	RI
13,80	10xØ	BM10KN1380RIHNO	135°	142,0	165,0	45,0	214	14,0	14,0	RI
13,80	12xØ	BM12KN1380RIHNO	135°	166,0	182,0	45,0	230	14,0	14,0	RI
13,80	20xØ	BM20KN1380RIHNO	135°	290,0	322,0	64,0	389	14,0	14,0	RI
13,90	3xØ	BM3KN1390REHNO	140°	43,0	60,0	45,0	107	14,0	14,0	RE
13,90	5xØ	BM5KN1390REHNO	140°	60,0	77,0	45,0	124	14,0	14,0	RE
13,90	8xØ	BM8KN1390REHNO	135°	112,0	133,0	45,0	178	14,0	14,0	RE
13,90	3xØ	BM3KN1390RIHNO	140°	43,0	60,0	45,0	107	14,0	14,0	RI
13,90	5xØ	BM5KN1390RIHNO	140°	60,0	77,0	45,0	124	14,0	14,0	RI
13,90	8xØ	BM8KN1390RIHNO	135°	112,0	133,0	45,0	178	14,0	14,0	RI
13,90	10xØ	BM10KN1390RIHNO	135°	142,0	165,0	45,0	214	14,0	14,0	RI
13,90	12xØ	BM12KN1390RIHNO	135°	166,0	182,0	45,0	230	14,0	14,0	RI
13,90	20xØ	BM20KN1390RIHNO	135°	290,0	322,0	64,0	389	14,0	14,0	RI
14,00	3xØ	BM3KN1400REHNO M16	140°	43,0	60,0	45,0	107	14,0	14,0	RE
14,00	5xØ	BM5KN1400REHNO M16	140°	60,0	77,0	45,0	124	14,0	14,0	RE
14,00	8xØ	BM8KN1400REHNO M16	135°	112,0	133,0	45,0	178	14,0	14,0	RE
14,00	3xØ	BM3KN1400RIHNO M16	140°	43,0	60,0	45,0	107	14,0	14,0	RI
14,00	5xØ	BM5KN1400RIHNO M16	140°	60,0	77,0	45,0	124	14,0	14,0	RI
14,00	8xØ	BM8KN1400RIHNO M16	135°	112,0	133,0	45,0	178	14,0	14,0	RI
14,00	10xØ	BM10KN1400RIHNCM16	135°	142,0	165,0	45,0	214	14,0	14,0	RI
14,00	12xØ	BM12KN1400RIHNCM16	135°	166,0	182,0	45,0	230	14,0	14,0	RI
14,00	20xØ	BM20KN1400RIHNCM16	135°	290,0	322,0	64,0	389	14,0	14,0	RI
14,10	3xØ	BM3KN1410REHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RE
14,10	5xØ	BM5KN1410REHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RE
14,10	8xØ	BM8KN1410REHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RE
14,10	3xØ	BM3KN1410RIHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RI
14,10	5xØ	BM5KN1410RIHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RI
14,10	8xØ	BM8KN1410RIHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RI
14,10	12xØ	BM12KN1410RIHNO	135°	192,0	208,0	48,0	260	16,0	16,0	RI
14,20	3xØ	BM3KN1420REHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RE
14,20	5xØ	BM5KN1420REHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RE
14,20	8xØ	BM8KN1420REHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RE
14,20	3xØ	BM3KN1420RIHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RI
14,20	5xØ	BM5KN1420RIHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RI
14,20	8xØ	BM8KN1420RIHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RI
14,20	12xØ	BM12KN1420RIHNO	135°	192,0	208,0	48,0	260	16,0	16,0	RI

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
14,30	3xØ	BM3KN1430REHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RE
14,30	5xØ	BM5KN1430REHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RE
14,30	8xØ	BM8KN1430REHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RE
14,30	3xØ	BM3KN1430RIHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RI
14,30	5xØ	BM5KN1430RIHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RI
14,30	8xØ	BM8KN1430RIHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RI
14,30	12xØ	BM12KN1430RIHNO	135°	192,0	208,0	48,0	260	16,0	16,0	RI
14,40	3xØ	BM3KN1440REHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RE
14,40	5xØ	BM5KN1440REHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RE
14,40	8xØ	BM8KN1440REHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RE
14,40	3xØ	BM3KN1440RIHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RI
14,40	5xØ	BM5KN1440RIHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RI
14,40	8xØ	BM8KN1440RIHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RI
14,40	12xØ	BM12KN1440RIHNO	135°	192,0	208,0	48,0	260	16,0	16,0	RI
14,50	3xØ	BM3KN1450REHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RE
14,50	5xØ	BM5KN1450REHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RE
14,50	8xØ	BM8KN1450REHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RE
14,50	3xØ	BM3KN1450RIHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RI
14,50	5xØ	BM5KN1450RIHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RI
14,50	8xØ	BM8KN1450RIHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RI
14,50	12xØ	BM12KN1450RIHNO	135°	192,0	208,0	48,0	260	16,0	16,0	RI
14,60	3xØ	BM3KN1460REHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RE
14,60	5xØ	BM5KN1460REHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RE
14,60	8xØ	BM8KN1460REHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RE
14,60	3xØ	BM3KN1460RIHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RI
14,60	5xØ	BM5KN1460RIHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RI
14,60	8xØ	BM8KN1460RIHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RI
14,60	12xØ	BM12KN1460RIHNO	135°	192,0	208,0	48,0	260	16,0	16,0	RI
14,70	3xØ	BM3KN1470REHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RE
14,70	5xØ	BM5KN1470REHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RE
14,70	8xØ	BM8KN1470REHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RE
14,70	3xØ	BM3KN1470RIHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RI
14,70	5xØ	BM5KN1470RIHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RI
14,70	8xØ	BM8KN1470RIHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RI
14,70	12xØ	BM12KN1470RIHNO	135°	192,0	208,0	48,0	260	16,0	16,0	RI
14,80	3xØ	BM3KN1480REHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RE
14,80	5xØ	BM5KN1480REHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RE
14,80	8xØ	BM8KN1480REHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RE
14,80	3xØ	BM3KN1480RIHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RI
14,80	5xØ	BM5KN1480RIHNO	140°	63,0	83,0	48,0	133	16,0	16,0	RI
14,80	8xØ	BM8KN1480RIHNO	135°	128,0	152,0	48,0	203	16,0	16,0	RI
14,80	12xØ	BM12KN1480RIHNO	135°	192,0	208,0	48,0	260	16,0	16,0	RI
14,90	3xØ	BM3KN1490REHNO	140°	45,0	65,0	48,0	115	16,0	16,0	RE

**FURAÇÃO**

**BMKN/BMSKN**

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
14,90	5xØ	BM5KN1490REHNO	140°	63,0	83,0	48,0	133	16,0	RE	
14,90	8xØ	BM8KN1490REHNO	135°	128,0	152,0	48,0	203	16,0	RE	
14,90	3xØ	BM3KN1490RIHNO	140°	45,0	65,0	48,0	115	16,0	RI	
14,90	5xØ	BM5KN1490RIHNO	140°	63,0	83,0	48,0	133	16,0	RI	
14,90	8xØ	BM8KN1490RIHNO	135°	128,0	152,0	48,0	203	16,0	RI	
14,90	12xØ	BM12KN1490RIHNO	135°	192,0	208,0	48,0	260	16,0	RI	
15,00	3xØ	BM3KN1500REHNO	140°	45,0	65,0	48,0	115	16,0	RE	
15,00	5xØ	BM5KN1500REHNO	140°	63,0	83,0	48,0	133	16,0	RE	
15,00	8xØ	BM8KN1500REHNO	135°	128,0	152,0	48,0	203	16,0	RE	
15,00	3xØ	BM3KN1500RIHNO	140°	45,0	65,0	48,0	115	16,0	RI	
15,00	5xØ	BM5KN1500RIHNO	140°	63,0	83,0	48,0	133	16,0	RI	
15,00	8xØ	BM8KN1500RIHNO	135°	128,0	152,0	48,0	203	16,0	RI	
15,00	12xØ	BM12KN1500RIHNO	135°	192,0	208,0	48,0	260	16,0	RI	
15,10	3xØ	BM3KN1510REHNO	140°	45,0	65,0	48,0	115	16,0	RE	
15,10	5xØ	BM5KN1510REHNO	140°	63,0	83,0	48,0	133	16,0	RE	
15,10	8xØ	BM8KN1510REHNO	135°	128,0	152,0	48,0	203	16,0	RE	
15,10	3xØ	BM3KN1510RIHNO	140°	45,0	65,0	48,0	115	16,0	RI	
15,10	5xØ	BM5KN1510RIHNO	140°	63,0	83,0	48,0	133	16,0	RI	
15,10	8xØ	BM8KN1510RIHNO	135°	128,0	152,0	48,0	203	16,0	RI	
15,10	12xØ	BM12KN1510RIHNO	135°	192,0	208,0	48,0	260	16,0	RI	
15,20	3xØ	BM3KN1520REHNO	140°	45,0	65,0	48,0	115	16,0	RE	
15,20	5xØ	BM5KN1520REHNO	140°	63,0	83,0	48,0	133	16,0	RE	
15,20	8xØ	BM8KN1520REHNO	135°	128,0	152,0	48,0	203	16,0	RE	
15,20	3xØ	BM3KN1520RIHNO	140°	45,0	65,0	48,0	115	16,0	RI	
15,20	5xØ	BM5KN1520RIHNO	140°	63,0	83,0	48,0	133	16,0	RI	
15,20	8xØ	BM8KN1520RIHNO	135°	128,0	152,0	48,0	203	16,0	RI	
15,20	12xØ	BM12KN1520RIHNO	135°	192,0	208,0	48,0	260	16,0	RI	
15,30	3xØ	BM3KN1530REHNO	140°	45,0	65,0	48,0	115	16,0	RE	
15,30	5xØ	BM5KN1530REHNO	140°	63,0	83,0	48,0	133	16,0	RE	
15,30	8xØ	BM8KN1530REHNO	135°	128,0	152,0	48,0	203	16,0	RE	
15,30	3xØ	BM3KN1530RIHNO	140°	45,0	65,0	48,0	115	16,0	RI	
15,30	5xØ	BM5KN1530RIHNO	140°	63,0	83,0	48,0	133	16,0	RI	
15,30	8xØ	BM8KN1530RIHNO	135°	128,0	152,0	48,0	203	16,0	RI	
15,30	12xØ	BM12KN1530RIHNO	135°	192,0	208,0	48,0	260	16,0	RI	
15,40	3xØ	BM3KN1540REHNO	140°	45,0	65,0	48,0	115	16,0	RE	
15,40	5xØ	BM5KN1540REHNO	140°	63,0	83,0	48,0	133	16,0	RE	
15,40	8xØ	BM8KN1540REHNO	135°	128,0	152,0	48,0	203	16,0	RE	
15,40	3xØ	BM3KN1540RIHNO	140°	45,0	65,0	48,0	115	16,0	RI	
15,40	5xØ	BM5KN1540RIHNO	140°	63,0	83,0	48,0	133	16,0	RI	
15,40	8xØ	BM8KN1540RIHNO	135°	128,0	152,0	48,0	203	16,0	RI	
15,40	12xØ	BM12KN1540RIHNO	135°	192,0	208,0	48,0	260	16,0	RI	
15,50	3xØ	BM3KN1550REHNO M18	140°	45,0	65,0	48,0	115	16,0	RE	
15,50	5xØ	BM5KN1550REHNO M18	140°	63,0	83,0	48,0	133	16,0	RE	

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
15,50	8xØ	BM8KN1550REHNO M18	135°	128,0	152,0	48,0	203	16,0	RE	
15,50	3xØ	BM3KN1550RIHNO M18	140°	45,0	65,0	48,0	115	16,0	RI	
15,50	5xØ	BM5KN1550RIHNO M18	140°	63,0	83,0	48,0	133	16,0	RI	
15,50	8xØ	BM8KN1550RIHNO M18	135°	128,0	152,0	48,0	203	16,0	RI	
15,50	12xØ	BM12KN1550RIHNCM18	135°	192,0	208,0	48,0	260	16,0	RI	
15,60	3xØ	BM3KN1560REHNO	140°	45,0	65,0	48,0	115	16,0	RE	
15,60	5xØ	BM5KN1560REHNO	140°	63,0	83,0	48,0	133	16,0	RE	
15,60	8xØ	BM8KN1560REHNO	135°	128,0	152,0	48,0	203	16,0	RE	
15,60	3xØ	BM3KN1560RIHNO	140°	45,0	65,0	48,0	115	16,0	RI	
15,60	5xØ	BM5KN1560RIHNO	140°	63,0	83,0	48,0	133	16,0	RI	
15,60	8xØ	BM8KN1560RIHNO	135°	128,0	152,0	48,0	203	16,0	RI	
15,60	12xØ	BM12KN1560RIHNO	135°	192,0	208,0	48,0	260	16,0	RI	
15,70	3xØ	BM3KN1570REHNO	140°	45,0	65,0	48,0	115	16,0	RE	
15,70	5xØ	BM5KN1570REHNO	140°	63,0	83,0	48,0	133	16,0	RE	
15,70	8xØ	BM8KN1570REHNO	135°	128,0	152,0	48,0	203	16,0	RE	
15,70	3xØ	BM3KN1570RIHNO	140°	45,0	65,0	48,0	115	16,0	RI	
15,70	5xØ	BM5KN1570RIHNO	140°	63,0	83,0	48,0	133	16,0	RI	
15,70	8xØ	BM8KN1570RIHNO	135°	128,0	152,0	48,0	203	16,0	RI	
15,70	12xØ	BM12KN1570RIHNO	135°	192,0	208,0	48,0	260	16,0	RI	
15,80	3xØ	BM3KN1580REHNO	140°	45,0	65,0	48,0	115	16,0	RE	
15,80	5xØ	BM5KN1580REHNO	140°	63,0	83,0	48,0	133	16,0	RE	
15,80	8xØ	BM8KN1580REHNO	135°	128,0	152,0	48,0	203	16,0	RE	
15,80	3xØ	BM3KN1580RIHNO	140°	45,0	65,0	48,0	115	16,0	RI	
15,80	5xØ	BM5KN1580RIHNO	140°	63,0	83,0	48,0	133	16,0	RI	
15,80	8xØ	BM8KN1580RIHNO	135°	128,0	152,0	48,0	203	16,0	RI	
15,80	12xØ	BM12KN1580RIHNO	135°	192,0	208,0	48,0	260	16,0	RI	
15,90	3xØ	BM3KN1590REHNO	140°	45,0	65,0	48,0	115	16,0	RE	
15,90	5xØ	BM5KN1590REHNO	140°	63,0	83,0	48,0	133	16,0	RE	
15,90	8xØ	BM8KN1590REHNO	135°	128,0	152,0	48,0	203	16,0	RE	
15,90	3xØ	BM3KN1590RIHNO	140°	45,0	65,0	48,0	115	16,0	RI	
15,90	5xØ	BM5KN1590RIHNO	140°	63,0	83,0	48,0	133	16,0	RI	
15,90	8xØ	BM8KN1590RIHNO	135°	128,0	152,0	48,0	203	16,0	RI	
15,90	12xØ	BM12KN1590RIHNO	135°	192,0	208,0	48,0	260	16,0	RI	
16,00	3xØ	BM3KN1600REHNO	140°	45,0	65,0	48,0	115	16,0	RE	
16,00	5xØ	BM5KN1600REHNO	140°	63,0	83,0	48,0	133	16,0	RE	
16,00	8xØ	BM8KN1600REHNO	135°	128,0	152,0	48,0	203	16,0	RE	
16,00	3xØ	BM3KN1600RIHNO	140°	45,0	65,0	48,0	115	16,0	RI	
16,00	5xØ	BM5KN1600RIHNO	140°	63,0	83,0	48,0	133	16,0	RI	
16,00	8xØ	BM8KN1600RIHNO	135°	128,0	152,0	48,0	203	16,0	RI	
16,00	12xØ	BM12KN1600RIHNO	135°	192,0	208,0	48,0	260	16,0	RI	
16,10	3xØ	BM3KN1610REHNO	140°	51,0	73,0	48,0	123	18,0	RE	
16,10	5xØ	BM5KN1610REHNO	140°	71,0	93,0	48,0	143	18,0	RE	
16,10	8xØ	BM8KN1610REHNO	135°	144,0	171,0	48,0	222	18,0	RE	







## BMKN/BMSKN

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
19,80	8xØ	BM8KN1980REHNO	135°	160,0	190,0	50,0	243	20,0	RE	
19,80	3xØ	BM3KN1980RIHNO	140°	55,0	79,0	50,0	131	20,0	RI	
19,80	5xØ	BM5KN1980RIHNO	140°	77,0	101,0	50,0	153	20,0	RI	
19,80	8xØ	BM8KN1980RIHNO	135°	160,0	190,0	50,0	243	20,0	RI	
19,80	12xØ	BM12KN1980RIHNO	135°	240,0	258,0	50,0	310	20,0	RI	
19,90	3xØ	BM3KN1990REHNO	140°	55,0	79,0	50,0	131	20,0	RE	
19,90	5xØ	BM5KN1990REHNO	140°	77,0	101,0	50,0	153	20,0	RE	
19,90	8xØ	BM8KN1990REHNO	135°	160,0	190,0	50,0	243	20,0	RE	
19,90	3xØ	BM3KN1990RIHNO	140°	55,0	79,0	50,0	131	20,0	RI	
19,90	5xØ	BM5KN1990RIHNO	140°	77,0	101,0	50,0	153	20,0	RI	
19,90	8xØ	BM8KN1990RIHNO	135°	160,0	190,0	50,0	243	20,0	RI	
19,90	12xØ	BM12KN1990RIHNO	135°	240,0	258,0	50,0	310	20,0	RI	
20,00	3xØ	BM3KN2000REHNO	140°	55,0	79,0	50,0	131	20,0	RE	
20,00	5xØ	BM5KN2000REHNO	140°	77,0	101,0	50,0	153	20,0	RE	
20,00	8xØ	BM8KN2000REHNO	135°	160,0	190,0	50,0	243	20,0	RE	
20,00	3xØ	BM3KN2000RIHNO	140°	55,0	79,0	50,0	131	20,0	RI	
20,00	5xØ	BM5KN2000RIHNO	140°	77,0	101,0	50,0	153	20,0	RI	
20,00	8xØ	BM8KN2000RIHNO	135°	160,0	190,0	50,0	243	20,0	RI	
20,00	12xØ	BM12KN2000RIHNO	135°	240,0	258,0	50,0	310	20,0	RI	
20,50	3xØ	BM3KN2050REHNO	140°	72,0	96,0	56,0	153	25,0	RE	
20,50	5xØ	BM5KN2050REHNO	140°	120,0	140,0	56,0	200	25,0	RE	
20,50	3xØ	BM3KN2050RIHNO	140°	72,0	96,0	56,0	153	25,0	RI	
20,50	5xØ	BM5KN2050RIHNO	140°	120,0	140,0	56,0	200	25,0	RI	
21,00	3xØ	BM3KN2100REHNO	140°	72,0	96,0	56,0	153	25,0	RE	
21,00	5xØ	BM5KN2100REHNO	140°	120,0	140,0	56,0	200	25,0	RE	
21,00	3xØ	BM3KN2100RIHNO	140°	72,0	96,0	56,0	153	25,0	RI	
21,00	5xØ	BM5KN2100RIHNO	140°	120,0	140,0	56,0	200	25,0	RI	
21,50	3xØ	BM3KN2150REHNO	140°	72,0	96,0	56,0	153	25,0	RE	
21,50	5xØ	BM5KN2150REHNO	140°	120,0	140,0	56,0	200	25,0	RE	
21,50	3xØ	BM3KN2150RIHNO	140°	72,0	96,0	56,0	153	25,0	RI	
21,50	5xØ	BM5KN2150RIHNO	140°	120,0	140,0	56,0	200	25,0	RI	
22,00	3xØ	BM3KN2200REHNO	140°	72,0	96,0	56,0	153	25,0	RE	
22,00	5xØ	BM5KN2200REHNO	140°	120,0	140,0	56,0	200	25,0	RE	
22,00	3xØ	BM3KN2200RIHNO	140°	72,0	96,0	56,0	153	25,0	RI	
22,00	5xØ	BM5KN2200RIHNO	140°	120,0	140,0	56,0	200	25,0	RI	
22,50	3xØ	BM3KN2250REHNO	140°	72,0	96,0	56,0	153	25,0	RE	
22,50	5xØ	BM5KN2250REHNO	140°	120,0	140,0	56,0	200	25,0	RE	
22,50	3xØ	BM3KN2250RIHNO	140°	72,0	96,0	56,0	153	25,0	RI	
22,50	5xØ	BM5KN2250RIHNO	140°	120,0	140,0	56,0	200	25,0	RI	
23,00	3xØ	BM3KN2300REHNO	140°	72,0	96,0	56,0	153	25,0	RE	
23,00	5xØ	BM5KN2300REHNO	140°	120,0	140,0	56,0	200	25,0	RE	
23,00	3xØ	BM3KN2300RIHNO	140°	72,0	96,0	56,0	153	25,0	RI	
23,00	5xØ	BM5KN2300RIHNO	140°	120,0	140,0	56,0	200	25,0	RI	

DC_m7	ULDR	Cod.	TH	SIG	LU	LCF	LS	OAL	DCONMS	R/RE
23,50	3xØ	BM3KN2350REHNO	140°	72,0	96,0	56,0	153	25,0	RE	
23,50	5xØ	BM5KN2350REHNO	140°	120,0	140,0	56,0	200	25,0	RE	
23,50	3xØ	BM3KN2350RIHNO	140°	72,0	96,0	56,0	153	25,0	RI	
23,50	5xØ	BM5KN2350RIHNO	140°	120,0	140,0	56,0	200	25,0	RI	
24,00	3xØ	BM3KN2400REHNO	140°	72,0	96,0	56,0	153	25,0	RE	
24,00	5xØ	BM5KN2400REHNO	140°	120,0	140,0	56,0	200	25,0	RE	
24,00	3xØ	BM3KN2400RIHNO	140°	72,0	96,0	56,0	153	25,0	RI	
24,00	5xØ	BM5KN2400RIHNO	140°	120,0	140,0	56,0	200	25,0	RI	
24,50	3xØ	BM3KN2450REHNO	140°	72,0	96,0	56,0	153	25,0	RE	
24,50	5xØ	BM5KN2450REHNO	140°	120,0	140,0	56,0	200	25,0	RE	
24,50	3xØ	BM3KN2450RIHNO	140°	72,0	96,0	56,0	153	25,0	RI	
24,50	5xØ	BM5KN2450RIHNO	140°	120,0	140,0	56,0	200	25,0	RI	
25,00	3xØ	BM3KN2500REHNO	140°	72,0	96,0	56,0	153	25,0	RE	
25,00	5xØ	BM5KN2500REHNO	140°	120,0	140,0	56,0	200	25,0	RE	
25,00	3xØ	BM3KN2500RIHNO	140°	72,0	96,0	56,0	153	25,0	RI	
25,00	5xØ	BM5KN2500RIHNO	140°	120,0	140,0	56,0	200	25,0	RI	



# FURAÇÃO

## BMKN/BMSKN

### Parâmetros de corte

BMKN / Parâmetros de Corte

ISO	Material	Velocidade de corte:				Avanço por rotação, (fn) mm/rot - $\phi$ = Diâmetro de Corte						
		(vc) m/min 3xD	(vc) m/min 5xD	(vc) m/min 8xD	(vc) m/min 12xD	$\phi$ 1-2	$\phi$ 2-5	$\phi$ 5-8	$\phi$ 8-12	$\phi$ 12-16	$\phi$ 16-20	$\phi$ 20-25
P	Aço < 800 N/mm <sup>2</sup>	60-90	60-90	40-70	55-70	0,04	0,06	0,11	0,15	0,21	0,26	0,34
	Aço < 1000 N/mm <sup>2</sup>	50-75	50-75	35-55	50	0,03	0,06	0,1	0,14	0,19	0,23	0,29
	Aço < 1400 N/mm <sup>2</sup>	40-45	40-45	30	40	0,03	0,04	0,07	0,1	0,14	0,18	0,23
M	Aço Inoxidável < 950 N/mm <sup>2</sup>	18-30	18-30	18-30	25-40	0,02	0,03	0,065	0,12	0,12	0,14	0,16
	Aço Inoxidável < 1250 N/mm <sup>2</sup>	18-25	18-25	18-25	25	0,02	0,03	0,07	0,1	0,12	0,14	0,16
K	Ferro Fundido < 800 N/mm <sup>2</sup>	60-90	50-75	40-60	40-60	0,064	0,088	0,11	0,16	0,2	0,248	0,304
	Ferro Fundido < 1000 N/mm <sup>2</sup>	50	40	30	40	0,04	0,056	0,084	0,112	0,152	0,192	0,24
N	Alumínio SI<5%	170-230	130-150	100-130		0,05	0,06	0,11	0,16	0,24	0,28	0,32
	Alumínio SI>5%	80-140	50-80	40-60		0,04	0,07	0,12	0,16	0,24	0,28	0,32
	Cobre / Latão	110-230	80-190	60-150		0,05	0,09	0,14	0,17	0,25	0,29	0,33
	sintéticos	80	60	40		0,04	0,06	0,11	0,16	0,24	0,28	0,32
	Compósitos	80	60	40		0,04	0,06	0,11	0,16	0,24	0,28	0,32
	Graphite	300	300	200		0,04	0,06	0,11	0,16	0,24	0,28	0,32
S	Ligas Resistentes ao Calor / Ligas de Titânio	25	25	15		0,01	0,02	0,03	0,06	0,08	0,09	0,1
H	Materiais Endurecidos	20	15			0,01	0,02	0,03	0,06	0,08	0,09	0,1

*Nota:* Os valores dos parâmetros de corte apresentados são teóricos, e tem de ser ajustados de acordo com as condições de uso.

**PRO CUT**

Parque Industrial Cruzeiro  
Rua Nossa Senhora da Ajuda, 150  
4815-364 Moreira Cónegos  
PORTUGAL

Tel.: +351 253561211  
Email: info@procut.pt