



LINHA DCM

SERIE DCM

DISJUNTOR DE CAIXA MOLDADA

MOLDED CASE CIRCUIT BREAKERS (MCCB)

ESPECIFICAÇÕES TÉCNICAS

TECHNICAL SPECIFICATIONS



PRINCIPAIS CARACTERÍSTICAS / MAIN CHARACTERISTICS

- Disjuntor em caixa moldada com capacidade de interrupção de até 100 kA;
Molded case circuit breaker with breaking capacity up to 100 kA;
- Botão de disparo (Trip);
Trigger button (Trip);
- Indicador de estado (ON/OFF);
Status indicator (ON/OFF);
- Barreira entre polos inclusa;
Pole-to-pole barrier included;
- Modelos com ajuste de disparo magnético fixo ou ajustável;
Models with fixed or adjustable magnetic trigger adjustment;
- De acordo com IEC60947-2;
According to IEC60947-2;



CÓDIGO DE COMPRA / HOW TO ORDER

DCM-100S3-100A

 MODELOS* / TYPE* CORRENTE NOMINAL* / RATE CURRENT*

*Veja na tabela código e modelos / *See the code and models table

MODELOS / MODELS



DCM50S DCM100S DCM250S DCM400S DCM630S DCM800S DCM1250S DCM1600S

CÓDIGOS / CODES

DCM50S	Modelo / Model	Corrente Nominal Rate Current
	DCM50S3-10A	10 A
	DCM50S3-16A	16 A
	DCM50S3-20A	20 A
	DCM50S3-25A	25 A
	DCM50S3-32A	32 A
	DCM50S3-40A	40 A
	DCM50S3-50A	50 A

DCM100S	Modelo / Model	Corrente Nominal Rate Current
	DCM100S3-63A	63 A
	DCM100S3-40A	40 A
	DCM100S3-80A	80 A
	DCM100S3-90A	90 A
	DCM100S3-100A	100 A

DCM250S	Modelo / Model	Corrente Nominal Rate Current
	DCM250S3-125A	125 A
	DCM250S3-150A	150 A
	DCM250S3-175A	175 A
	DCM250S3-200A	200 A
	DCM250S3-225A	225 A
	DCM250S3-250A	250 A

DCM400S	Modelo / Model	Corrente Nominal Rate Current
	DCM400S3-300A	300 A
	DCM400S3-350A	350 A
	DCM400S3-400A	400 A

DCM630S	Modelo / Model	Corrente Nominal Rate Current
	DCM630S3-500A	500 A
	DCM630S3-600A	600 A

DCM800S	Modelo / Model	Corrente Nominal Rate Current
	DCM800S3-700A	700 A
	DCM800S3-800A	800 A

DCM1250S	Modelo / Model	Corrente Nominal Rate Current
	DCM1250S3-1000A	1000 A
	DCM1250S3-1250A	1250 A

DCM1600S	Modelo / Model	Corrente Nominal Rate Current
	DCM1600S3-1600A	1600 A

ESPECIFICAÇÕES GERAIS / GENERAL SPECIFICATIONS

Modelo / Type		50S	100S	250S	400S	630S	800S	1250S	1600S
Corrente nominal In (A) à temperatura ambiente 40°C <i>Rated current (A) at ambient temperature 40°C</i>		10, 16, 20, 25, 32, 40, 50	63, 70, 80, 90, 100	125, 150, 175, 200, 225, 250	300, 350, 400	500, 600	700, 800	1000, 1250	1600
Icu/Ics Capacidade de interrupção (kA) <i>Breaking capacity (kA)</i>	AC 230V	25 / 13	100 / 50	100 / 50	100 / 100	100 / 100	100 / 100	-	-
	AC 400V	10 / 5	50 / 35	50 / 35	70 / 70	70 / 70	70 / 70	80 / 40	80 / 40
	AC 690V	-	5 / 3	5 / 3	10 / 10	10 / 10	15 / 15	25 / 20	30 / 20
Faixa de ajuste do disparo magnético <i>Setting range of magnetic trip</i>		10 x In Fixo / Fixed				5-10 x In Ajustável <i>Adjustable</i>		10 x In Fixo / Fixed	
Dispositivo de disparo automático <i>Automatic tripping device</i>		Disparo térmico e magnético fixos <i>Thermal and fixed magnetic trips</i>				Disparo térmico fixo e magnético ajustável <i>Fixed thermal and adjustable magnetic trips</i>		Disparo térmico e magnético fixos <i>Thermal and fixed magnetic trips</i>	
Tensão nominal de isolamento CNS/IEC (Ui) <i>Rated insulation voltage CNS/IEC (Ui)</i>		690 VCA / VAC						800 VCA / VAC	
Conexões / Connections		Parafuso / Screw terminal			Parafuso (barramento opcional) <i>Screw terminal (optional busbar)</i>			Barramento / Busbar	
Número de polos / Number of poles		3							
Tensão nominal (Un) <i>Rated voltage (Un)</i>		690 VCA / VAC							
Frequência / Frequency		50/60 Hz							
Categoria de utilização (Hz) <i>Usage category</i>		A							
Tensão admissível de impulso (Uimp) (kV) <i>Impulse permissible voltage (Uimp) (kV)</i>		8 kV							
Peso / Weight (Kg)		0,75	1,1	1,5	5,7	10,9	11,4	32	34

CURVA DE DISPARO / TRIPPING CURVE

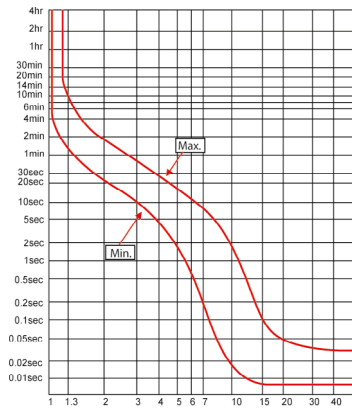
Corrente nominal In (A) Rated current In(A)	Disparo térmico (temperatura ambiente +40°C) Thermal tripper (ambient temperature +40°C)			Corrente de operação para disparo eletromagnético (A) Operating current of electromagnetic tripper (A)
	(1,05 x In) Tempo em repouso (h) (estado inicial: frio) (1.05 x In) Non-operating time (h) (starting state: cold)	(1,03 x In) Tempo em operação (h) (estado inicial: quente) (1.3 x In) Operating time (h) (starting state: hot)	(7,2 x In) Tempo em operação (s) (estado inicial: frio) (7.2 x In) Operating time (s) (starting state: cold)	
≤ 63	> 1	≤ 1	2 < Tp ≤ 10	(10±2) In
63 < In ≤ 250	> 2	≤ 2	4 < Tp ≤ 10	
250 < In ≤ 400	> 2	≤ 2	6 < Tp ≤ 20	(5~10±2) In
500 < In ≤ 800	> 2	≤ 2	6 < Tp ≤ 20	
800 < In ≤ 1600	> 2	≤ 2	6 < Tp ≤ 20	(10±2) In

Tp - Tempo de disparo / Tripper time

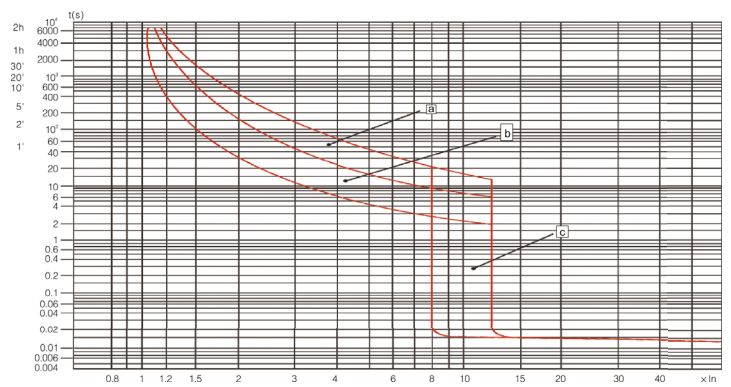
Curva característica de proteção contra sobrecorrente / Curva característica de proteção contra sobrecorrente

Recomendamos o formato digital para melhor visualização. / We recommend digital format for better viewing.

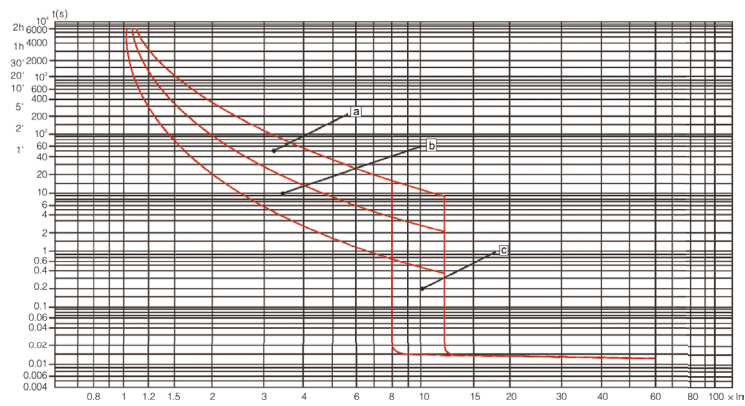
DCM50S



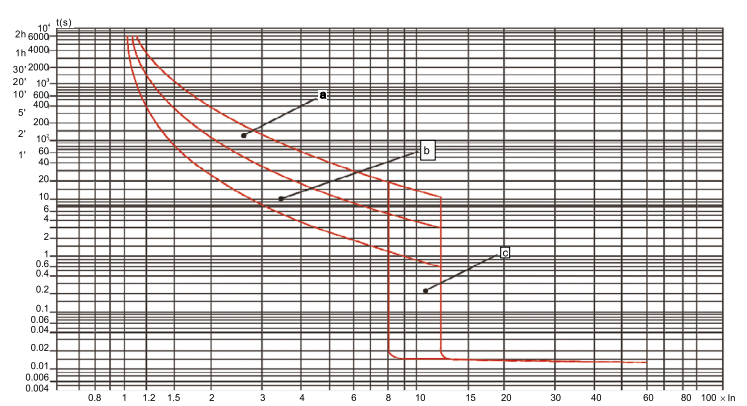
DCM100S



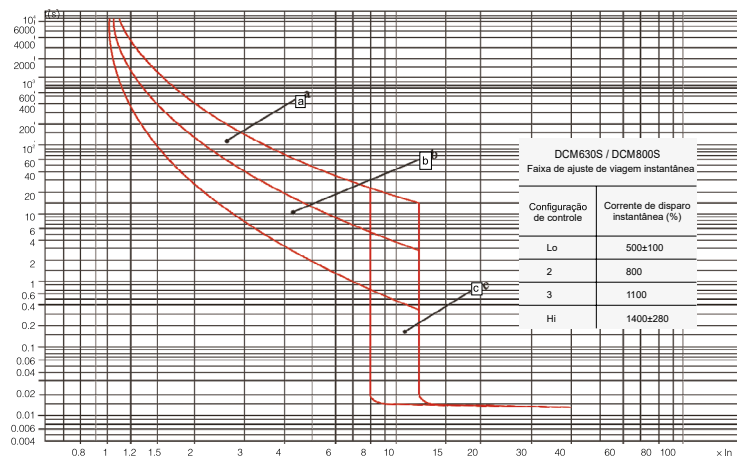
DCM250S



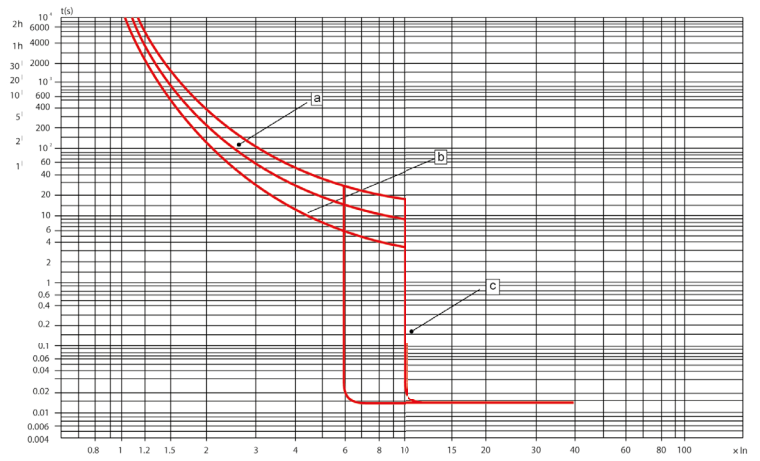
DCM400S



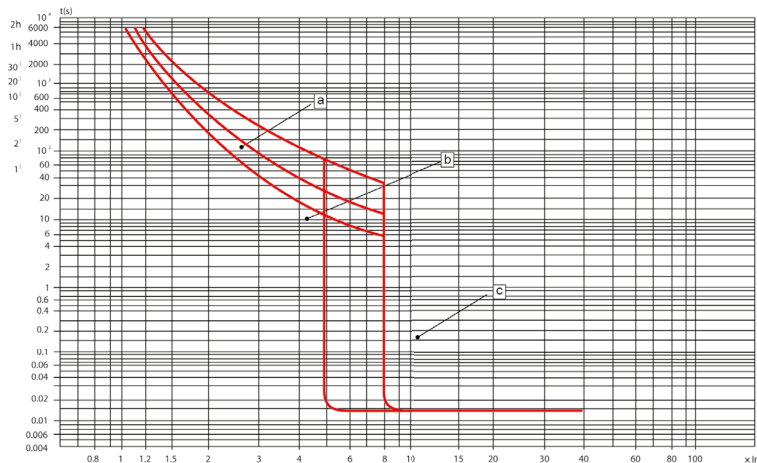
DCM630S / DCM800S



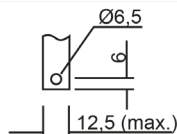
DCM1250S



DCM1600S

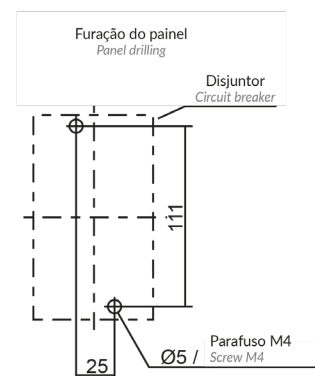


DCM50S

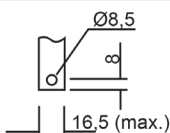


Espeçura máxima do condutor
Maximum conductor thickness = 5mm

Cabo aplicável / *Applicable cable:*
2.5 ~ 25 mm²

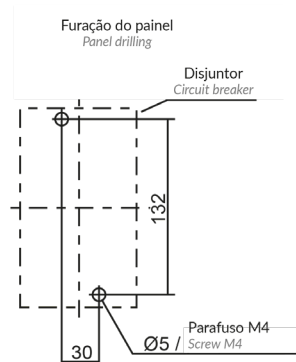


Dimensão para conexão por barramento
Dimension for busbar connection

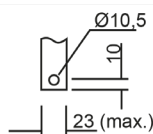


Espeçura máxima do condutor
Maximum conductor thickness = 5mm

Cabo aplicável / *Applicable cable*:
 $I_n = 10 \sim 63A = 2,5 \sim 35 \text{ mm}^2$
 $I_n = 75 \sim 100A = 25 \sim 50 \text{ mm}^2$

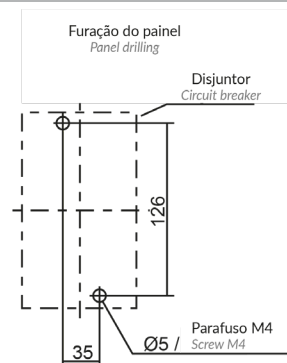


Dimensão para conexão por barramento
Dimension for busbar connection

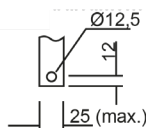


Espeçura máxima do condutor
Maximum conductor thickness = 7mm

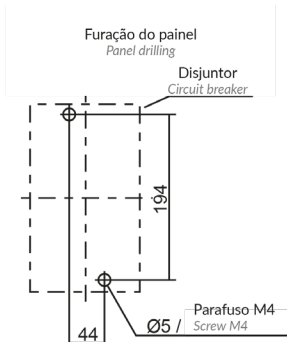
Cabo aplicável / *Applicable cable*:
 $I_n = 100 \sim 175A = 25 \sim 95 \text{ mm}^2$
 $I_n = 200 \sim 250A = 70 \sim 120 \text{ mm}^2$



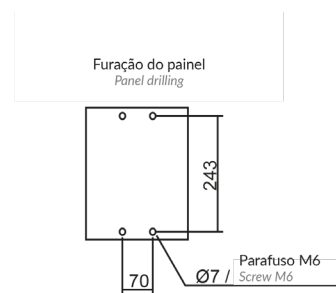
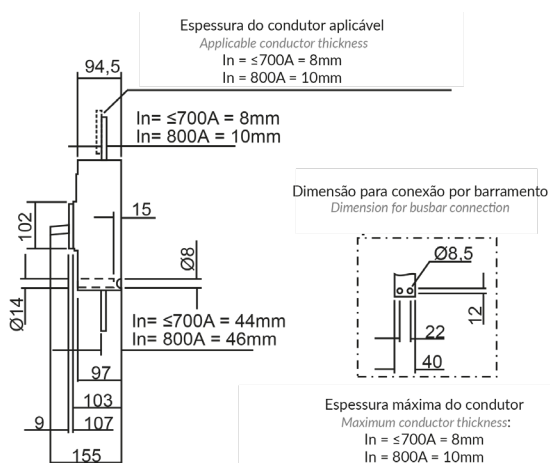
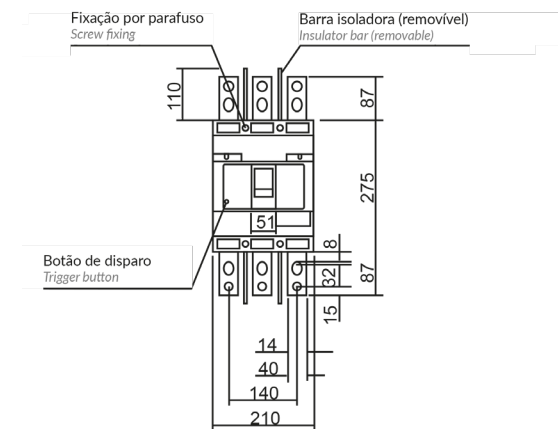
Dimensão para conexão por barramento
Dimension for busbar connection



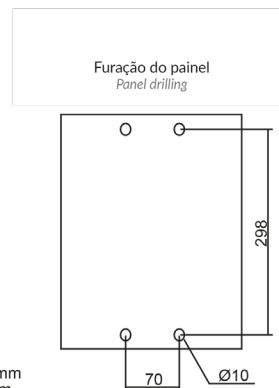
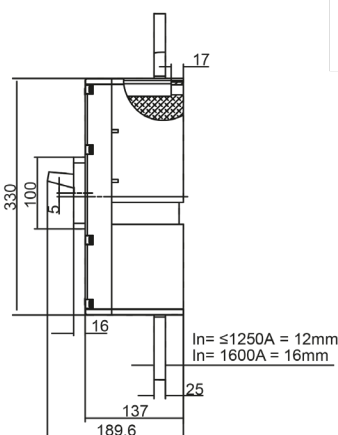
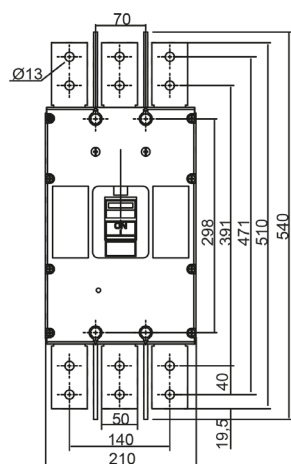
Espeçura máxima do condutor
Maximum conductor thickness = 8mm



DCM630S / DCM800S



DCM1250S / DCM1600S



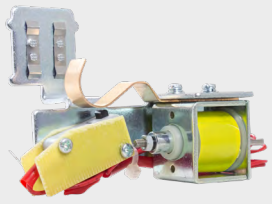
ACESSÓRIOS / ACCESSORIES

Acessórios internos / Internal accessories

Contato auxiliar de alarme / Auxiliary alarm contact				Contato auxiliar / Auxiliary contact			
							
DCM-AL100	DCM-AL250	DCM-AL400	DCM-AL630	DCM-AX100	DCM-AX250	DCM-AX400	DCM-AX630
Uso / Use: 100S	Uso / Use: 250S	Uso / Use: 400S	Uso / Use: 630S/800S	Uso / Use: 100S	Uso / Use: 250S	Uso / Use: 400S	Uso / Use: 630S/800S
Arranjo de contatos / Contact arrangement: 1 Reversível / SPDT				Arranjo de contatos / Contact arrangement: 1 Reversível / SPDT			
Montagem / Mounting: Esquerdo / Left				Montagem / Mounting: Direito / Right			

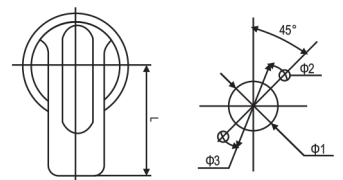
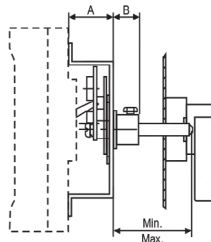
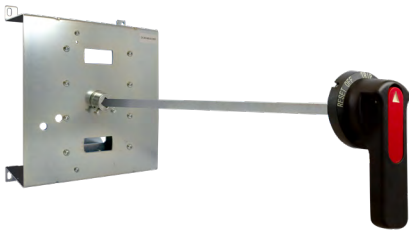
Esquema de ligação <i>Wiring diagram</i>	Corrente máxima <i>Maximum current</i>	Esquema de ligação <i>Wiring diagram</i>	Corrente máxima <i>Maximum current</i>
	3 A		3 A

Bobina de desligamento / Shutdown coil

			
DCM-ST100-220	DCM-ST250-220	DCM-ST400/800-220	DCM-ST1250-220
Uso / Use: 100S	Uso / Use: 250S	Uso / Use: 400S, 630S e / and 800S	Uso / Use: 1250S
Alimentação / Power supply: 220 VCA / VAC			
Montagem / Mounting: Direito / Right			

Acessórios externos / External accessories

Manopla com bloqueio por cadeado / Handle with padlock lock

Tolerância não indicada $\pm 0,5$ mm / Not indicated tolerance $\pm 0,5$ mm

Código / Code	Uso / Use	Dimensão Dimensions (mm)		Diâmetro Diameter		Ângulo Angle			
		A	B	Mínimo Minimum	Máximo Maximum	Φ1	Φ2	Φ3	L
DCM-M100	100	45,3	15,7	50 - Ø10	400 - Ø10	33	4,5	53	65
DCM-M250	250	45,3	15,7	50 - Ø10	400 - Ø10				125
DCM-M400	400	76,5	16,5	50 - Ø13,5	400 - Ø13,5				
DCM-M630-800	630/800	77,9	16,9	50 - Ø13,5	400 - Ø13,5	28,6	5	108,8	122,7
DCM-M1250	1250	67,3	23,6	50 - Ø13,5	515 - Ø13,5				

Conectores / Connectors

				
DCM-T100	DCM-T250	DCM-T400	DCM-T630	DCM-T800
Uso / Use: 100S	Uso / Use: 250S	Uso / Use: 400S	Uso / Use: 630S	Uso / Use: 800S

Quantidade / Quantity: 3

Dimensão dos conectores / Connector dimensions:

Visite o site: metaltex.com.br e conheça a linha completa de proteção elétrica.Visit site: metaltex.com.br and discover the complete line of electrical protection.