

# TemContact

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## Interruptores guardamotores *Manual Motor Starters*

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## Auxiliares de mando y señalización *Manual pilot devices*

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## Ventajas del guardamotor

<b>Compacto</b>	Espacio de montaje: Interruptor automático en caja moldeada + relé térmico: 100% Guardamotor: <b>43% (57% reducción)</b>
<b>Alto poder de corte</b>	Poder de corte estándar: 25, 50, 100kA - 400V CA Alto poder de corte: 50, 100kA - 400V CA
<b>Coordinación de protección contra cortocircuito</b>	IEC 60947-4-1 Tipo 1 y 2
<b>Disminución de cableado</b>	Int. automático en caja moldeada + Contactor + relé térmico: 100% Guardamotor + Contactor: <b>50% (50% reducción)</b>
<b>Normas</b>	IEC 60947-1, 60947-2, 60947-4-1, UL 508, CSA C22.2 No.14
<b>Diseño ecológico</b>	Material termoplástico reciclable. / Indicación sobre los materiales usados. Contactos libres de cadmio.



## MMS advantages

<b>Compactness</b>	Mounting space: MCCB + Thermal overload relay: 100% MMS: <b>43% (57% reduction)</b>
<b>High breaking capacity</b>	Standard breaking capacity: 25, 50, 100kA - 400V AC High breaking capacity: 50, 100kA - 400V AC
<b>Short-circuit protective coordination</b>	IEC 60947-4-1 Type 1 and 2
<b>Reduction in wiring work</b>	MCCB + Contactor + Thermal overload relay: 100% MMS + Contactor: <b>50% (50% reduction)</b>
<b>Standards</b>	IEC 60947-1, 60947-2, 60947-4-1, UL 508, CSA C22.2 No.14
<b>Ecological design</b>	Recyclable thermoplastic resin used in plastic parts. / Indication of materials used. Cadmium-free contacts.

- Protección ante sobrecargas y cortocircuitos para motores hasta 63A (240Vca, 15kW ó 415 Vca, 30kW)
- Dimensiones: 2 módulos, 45mm ó 55mm anchura
- Regulación sobrecarga: 0,1 a 63A
  - GM1S, GM1H: 45mm ancho, ajustes de 0,1 a 32A.
  - GM2S, GM2H: 55mm ancho, ajustes 6,3 a 63A.
- Hasta 32A, versiones con mando rotativo y mando interruptor.



- Protection against overloads and short-circuits for motors up to 63A (240Vac, 15kW or 415 Vac, 30kW)
- Dimensions: 2 modules, 45mm or 55mm width
- Regulation overload: 0.1 to 63A
  - GM1S, GM1H: 45mm width, setting from 0.1 to 32A.
  - GM2S, GM2H: 55mm width, setting from 6.3 to 63A.
- Up to 32A, lever or rotary handle available.



## Interruptores Guardamotores GM / MMS GM

In (A)	Pot. máx./Max. power Motor 3-F/Phase		Icu (kA)		Referencia Reference
	kW (200-240Vac)	kW (380-440Vac)	(240Vac)	(415Vac)	
0.1 - 0.16	-	0.02	100	100	GM1S016
0.16 - 0.25	0.03	0.06	100	100	GM1S025
0.25 - 0.4	0.06	0.1	100	100	GM1S04
0.4 - 0.63	0.06	0.12	100	100	GM1S063
0.63- 1	0.1	0.2	100	100	GM1S1
1-1.6	0.2	0.4	100	100	GM1S1V6
1.6 - 2.5	0.4	0.75	100	100	GM1S2V5
2.5-4.0	0.75	1.5	100	100	GM1S4
4.0 - 6.3	1.5	2.2	100	100	GM1S6V3
6.3 - 10	2.2	3.7	100	100	GM1S10
9- 13	2.2	5.5	100	50	GM1S13
11-16	3.7	7.5	100	25	GM1S16
14-20	3.7	7.5	50	25	GM1S20
19-25	5.5	11	50	25	GM1S25
24-32	7.5	15	50	25	GM1S32
0.1 - 0.16	-	0.02	100	100	GM1H016
0.16 - 0.25	0.03	0.06	100	100	GM1H025
0.25 - 0.4	0.06	0.1	100	100	GM1H04
0.4 - 0.63	0.06	0.12	100	100	GM1H063
0.63- 1	0.1	0.2	100	100	GM1H1
1-1.6	0.2	0.4	100	100	GM1H1V6
1.6 - 2.5	0.4	0.75	100	100	GM1H2V5
2.5-4.0	0.75	1.5	100	100	GM1H4
4.0 - 6.3	1.5	2.2	100	100	GM1H6V3
6.3 - 10	2.2	3.7	100	100	GM1H10
9- 13	2.2	5.5	100	100	GM1H13
11-16	3.7	7.5	100	50	GM1H16
14-20	3.7	7.5	100	50	GM1H20
19-25	5.5	11	100	50	GM1H25
24-32	7.5	15	100	50	GM1H32
6.3 - 10	2.2	3.7	100	100	GM2S10
9- 13	2.2	5.5	100	50	GM2S13
11-16	3.7	7.5	100	25	GM2S16
14-20	3.7	7.5	50	25	GM2S20
19-25	5.5	11	50	25	GM2S25
24-32	7.5	15	50	25	GM2S32
28-40	7.5	18.5	50	25	GM2S40
35-50	11	22	50	25	GM2S50
45-63	15	30	50	25	GM2S63
6.3 - 10	2.2	3.7	100	100	GM2H10
9- 13	2.2	5.5	100	100	GM2H13
11-16	3.7	7.5	100	50	GM2H16
14-20	3.7	7.5	100	50	GM2H20
19-25	5.5	11	100	50	GM2H25
24-32	7.5	15	100	50	GM2H32
28-40	7.5	18.5	100	50	GM2H40
35-50	11	22	100	50	GM2H50
45-63	15	30	100	50	GM2H63

Para guardamotor con protección solamente magnética, consulte con Terasaki.  
MMS with magnetic protection only, please contact Terasaki.

## Accesorios para Guardamotores / Accessories for MMS

Todos los accesorios pueden instalarse en la serie GM1 (ancho 45mm) y GM2 (ancho 55mm).  
Available accessories for series GM1 (width 45mm) and GM2 (width 55mm).

Cubierta de protección IP20 para evitar contactos directos y posibles descargas.  
Protection cover IP20 that prevents accidental finger touch to charged parts.

Los contactos externos auxiliares pueden montarse en ambos lados del guardamotor.  
The external auxiliary contacts can be mounted on to the MMS both sides.

Disponibles bobinas de mínima tensión con contactos auxiliares adelantados al cierre. Consultar con Terasaki.  
Available UVT with early make contacts. Please contact Terasaki.

### Contactos auxiliares / Auxiliary contact blocks



GMAX

Montaje Mounting	Contactos Contacts	In (A) 230V	Referencia Reference
interno front. internal front.	1NO 1NC	1.5 1.5	GMAXI10 GMAXI01
lateral izqda. side left	2NO 1NO+1NC 2NC	4 4 4	GMAXL20 GMAXL11 GMAXL02
lateral dcha. side right	2NO 1NO+1NC 2NO	4 4 4	GMAXR20 GMAXR11 GMAXR02

### Contactos de alarma / Alarm contact blocks



GMAL

Montaje Mounting	Contactos Contacts	In (A) 230V	Referencia Reference
interno front. dcho. internal front. right	1NO 1NC	1.5 1.5	GMALI10 GMALI01

### Contactos auxiliares y de alarma / Aux/Al contact block



GMXL

Montaje Mounting	Contactos Contacts	In (A) 230V	Referencia Reference
lateral izq. side left	aux.1NO / alr.1NO aux.1NC / alr.1NO aux.1NO / alr.1NC aux.1NC / alr.1NC	4 4 4 4	GMXLAA GMXLAB GMXLBA GMXLBB

### Contactos indicación cortocircuito / Short-circuit alarm contact block



GMALSAB

Montaje Mounting	Contactos Contacts	In (A) 230V	Referencia Reference
lateral izq. side left	1NO + 1NC	4	GMALSAB

Nota: NO = NA

### Contactos indicación cortocircuito / Short-circuit alarm contact block



GMSHT

Montaje Mounting	Tensión bobina Coil voltage	Referencia Reference
lateral derecha side right	24V 50/60Hz	GMSHT24
	48V 60Hz	GMSHT48F
	48V 50Hz/60V 60Hz	GMSHT48
	100V 50Hz/100-110V 60Hz	GMSHT100
	110-127V 50Hz/120V 60Hz	GMSHT110
	200V 50Hz/200-220V 60Hz	GMSHT200
	220-230V 50Hz/240-260V 60Hz	GMSHT220
	240V 50Hz/277V 60Hz	GMSHT240
	380-400V 50Hz/400-440V 60Hz	GMSHT380
	415-440V 50Hz/400-440V 60Hz	GMSHT415
	500V 50Hz/600V 60Hz	GMSHT500
	24-60V DC	GMSHT24DC
	110-240V DC	GMSHT110DC

## Bobinas de mínima tensión / Undervoltage trip



GMUVT

Montaje Mounting	Tensión bobina Coil voltage	Referencia Reference
lateral derecha side right	24V 50Hz	GMUVT24
	24V 60Hz	GMUVT24F
	48V 50Hz	GMUVT48
	48V 60Hz	GMUVT48F
	100V 50Hz/100-110V 60Hz	GMUVT100
	110-127V 50Hz/120V 60Hz	GMUVT110
	200V 50Hz/200-220V 60Hz	GMUVT200
	220-230V 50Hz/240-260V 60Hz	GMUVT220
	240V 50Hz/277V 60Hz	GMUVT240
	380-400V 50Hz/400-440V 60Hz	GMUVT380
	415-440V 50Hz/400-440V 60Hz	GMUVT415
500V 50Hz/600V 60Hz	GMUVT500	

## Manetas externas / External operating handles



GM1HSB



GM1HER

Tipo Type	Compatible con Compatible with	Referencia Reference
estándar (negro) / standard (black) emergencia (rojo/amarillo) / emergency (red/yellow)	GM1	GM1HSB
		GM1HER
estándar (negro) / standard (black) emergencia (rojo/amarillo) / emergency (red/yellow)	GM2	GM2HSB
		GM2HER

## Accesorios de protección mecánica / Accessories for mechanical protection



GM1PT



GM2CT



GMPAXI

Tipo Type	Compatible con Compatible with	Referencia Reference
de terminales tornillos / terminals screws	GM1*	GM1PT
de terminales IP20 / terminals IP20	GM2*	GM2CT
de contactos frontales / contacts for front	GM1* - GM2*	GMPAXI

## Cajas para interruptores guardamotores y accesorios Enclosures for MMS and accessories







GMS55





GME55



Tipo Type	Referencia Reference
Caja de superficie IP55 Surface enclosure IP55	GMS55
Caja de empotrar IP55 Flush fitting enclosure IP55	GME55
Dispositivo de enclavamiento Padlocking device	GMDE
Pulsador seta con retorno automático Stop push button	GMPSA
Pulsador seta con retención, desenclavamiento por giro Stop push button with latch, turn	GMPSG
Pulsador seta con retención, desenclavamiento por llave Stop push button with latch, key unlatch	GMPSK
Kit de adaptación para GM1 más bobina UVT con 2NA adelantados Adapter kit for GM1+UVT with 2NO early make contacts	GM1IPR

Nota: Cajas aplicables a modelos GM1S sólo.  
Note: Enclosures available for GM1S types only.

	<b>GM1S</b>	<b>GM1H</b>	<b>GM2S</b>	<b>GM2H</b>
				
	<b>Poder de corte estándar</b> Standard breaking capacity	<b>Alto poder de corte</b> High breaking capacity	<b>Poder de corte estándar</b> Standard breaking capacity	<b>Alto poder de corte</b> High breaking capacity
Nº polos Number of poles	3	3	3	3
Tipo de mando Handle type	mando interruptor lever handle	mando rotativo rotary handle	mando rotativo rotary handle	mando rotativo rotary handle
Int.regulación (A) Rated current Ie	0.16 a/to 32A	0.16 a/to 32A	10 a/to 63A	10 a/to 63A
Tensión de empleo Ue (V) Rated operational voltage Ue (V)	200 a/to 690V	200 a/to 690V	200 a/to 690V	200 a/to 690V
Frecuencia (Hz) Rated frequency	50/60	50/60	50/60	50/60
Tensión de aislamiento Ui (V) Rated insulation voltage Ui (V)	690	690	1000	1000
Tensión de impulso Uimp (V) Rated impulse withstand voltage Uimp (kV)	6	6	8	8
<b>Categoría de utilización:</b> <b>Utilization category:</b>				
IEC 60947-2 Interruptor IEC 60947-2 Circuit breaker	Cat.A			
IEC 60947-4-1 Guardamotor IEC 60947-4-1 Motor starter	AC-3			
Desconexión instantánea Instantaneous trip characteristic	13xIe máx.			
Potencia disipada Power loss	7W: In=0.16 a/to 25A 8.5W:In=32A		11W: In=10 a/to 32A 15W:In=40 a/to 50A 17W:In=63A	
Endurancia mecánica (maniobras) Mechanical endurance (operations)	100000: In=0.16 a/to 25A 70000: In=32A		50000	
Endurancia eléctrica (maniobras) Electrical endurance (operations)	100000: In=0.16 a/to 25A 70000: In=32A		25000	
Máx.maniobra por hora (arranque) Max. operations per hour (motor start-up)	25			
Protección fallo de fase Phase-loss protection	suministrado / provided			
Indicador de disparo Trip indicator	suministrado / provided			
Función de test de disparo Test trip function	suministrado / provided			
Dimensiones (mm) AxHxP Dimensions (mm) WxHxD	45x90x66	45x90x79	55x110x96	55x110x96
Peso (gr.) Weight (g)	350	370	780	780
<b>Accesorios opcionales:</b> <b>Optional accessory:</b>				
Contacto auxiliar Auxiliary contact block	disponible / available		disponible / available	
Contacto de alarma Alarm contact block	disponible / available		disponible / available	
Contacto auxiliar+alarma Auxiliary and alarm contact block	disponible / available		disponible / available	
Contacto alarma cortocircuito Short-circuit alarm contact block	disponible / available		disponible / available	
Bobina de emisión Shunt trip device	disponible / available		disponible / available	
Bobina de mínima tensión Undervoltage trip device	disponible / available		disponible / available	
Mando externo External operating handle	no disponible / not available		disponible / available	
Normas de conformidad Standards	IEC 60947-1, 60947-2, 60947-4-1, UL508, CSA C22.2No.14, TUV			

**Tabla de valores de poder de corte (kA) / Rated breaking capacity (kA) values table**

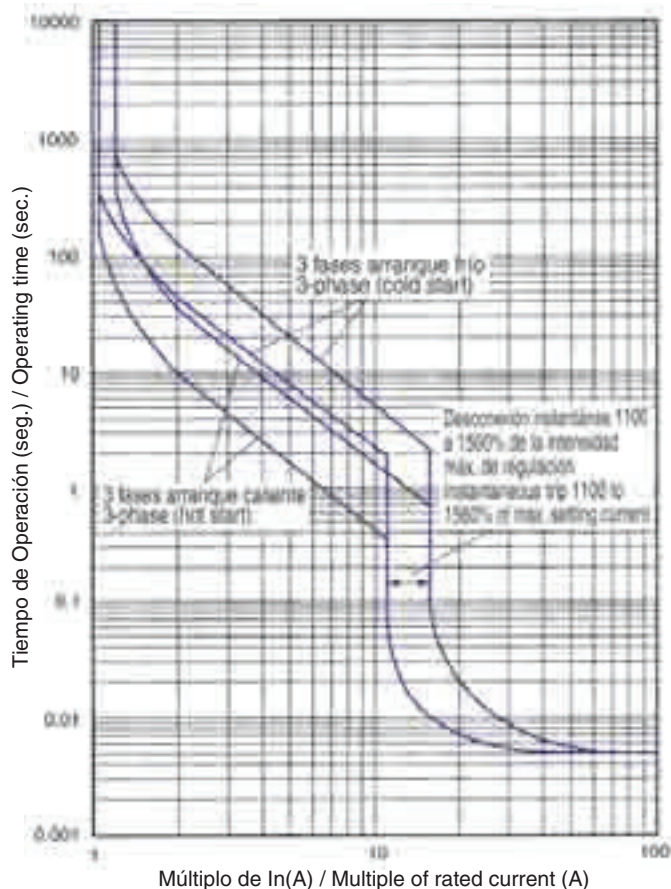
	GM1S 										GM1H 										
Intensidad de regulación / Adjustable current range	240V 230V		415V 400V		460V 440V		500V		690V 600V		240V 230V		415V 400V		460V 440V		500V		690V 600V		
	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	
0.1-0.16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
0.16-0.25	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
0.25-0.4	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
0.4-0.63	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
0.63-1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1-1.6	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1.6-2.5	100	100	100	100	100	100	100	100	3	2	100	100	100	100	100	100	100	100	8	6	
2.5-4	100	100	100	100	100	100	100	100	3	2	100	100	100	100	100	100	100	100	8	6	
4-6.3	100	100	100	100	50	38	50	38	3	2	100	100	100	100	100	100	100	100	6	5	
6.3-10	100	100	100	100	15	11	10	8	3	2	100	100	100	100	50	38	50	38	6	5	
9-13	100	100	50	38	10	8	6	5	3	2	100	100	100	100	50	38	42	32	6	5	
11-16	100	100	25	19	10	8	6	5	3	2	100	100	50	38	35	27	10	8	4	3	
14-20	50	38	25	19	10	8	6	5	3	2	100	100	50	38	35	27	10	8	4	3	
19-25	50	38	25	19	10	8	6	5	3	2	100	100	50	38	35	27	10	8	4	3	
24-32	50	38	25	19	10	8	6	5	3	2	100	100	50	38	35	27	10	8	4	3	
28-40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35-50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45-63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

	GM2S 										GM2H 										
Intensidad de regulación / Adjustable current range	240V 230V		415V 400V		460V 440V		500V		690V 600V		240V 230V		415V 400V		460V 440V		500V		690V 600V		
	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	I <sub>cu</sub>	I <sub>cs</sub>	
0.1-0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.16-0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.25-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.4-0.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.63-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6-2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.5-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-6.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.3-10	100	100	100	100	15	12	10	8	4	3	100	100	100	100	50	38	50	38	6	5	
9-13	100	100	50	38	10	8	6	5	4	3	100	100	100	100	50	38	42	32	6	5	
11-16	100	100	25	19	10	8	6	5	4	3	100	100	50	38	50	38	12	9	5	4	
14-20	50	38	25	19	10	8	6	5	4	3	100	100	50	38	50	38	12	9	5	4	
19-25	50	38	25	19	10	8	6	5	4	3	100	100	50	38	35	27	12	9	5	4	
24-32	50	38	25	19	10	8	6	5	4	3	100	100	50	38	35	27	10	8	5	4	
28-40	50	38	25	19	10	8	6	5	4	3	100	100	50	38	35	27	10	8	5	4	
35-50	50	38	25	19	10	8	6	5	4	3	100	100	50	38	35	27	10	8	5	4	
45-63	50	38	25	19	10	8	6	5	4	3	100	100	50	38	35	27	10	8	5	4	

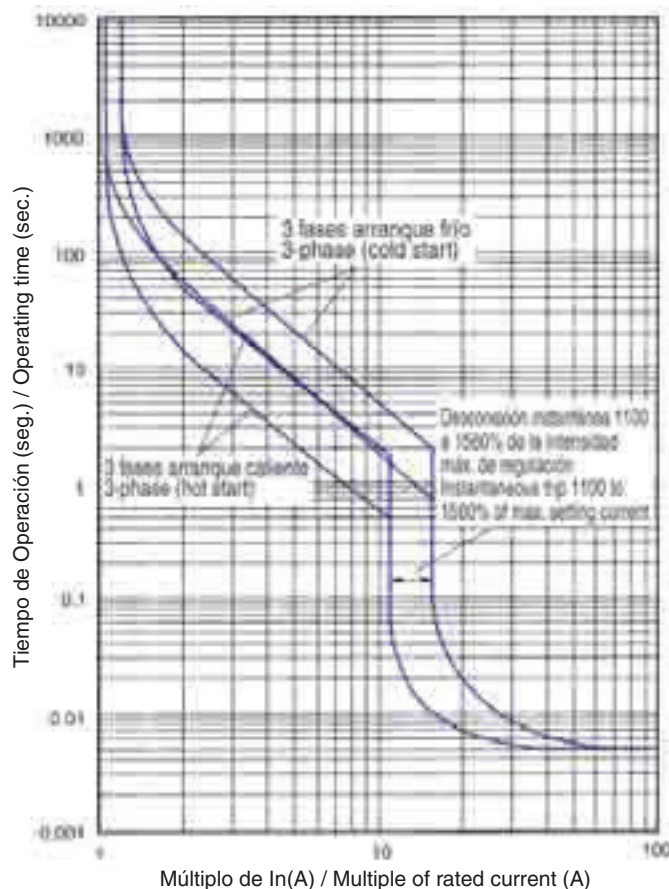


## Curvas de funcionamiento / Operating characteristics

GM1S, GM1H



GM2S, GM2H

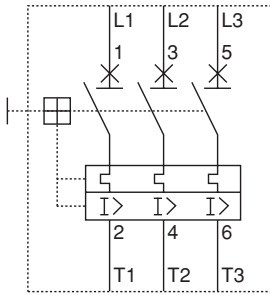


## Valores de los accesorios / Ratings of accessories

	Contacto auxiliar frontal Auxiliary contact block / front	Contacto auxiliar lateral Auxiliary contact block / side	Contacto de alarma Alarm contact block	Contacto auxiliar+alarma Aux. and alarm contact block	Contacto de cortocircuito alarm Short-circuit alarm contact block
Accesorio / Accessory	<b>GMAX</b>	<b>GMAX</b>	<b>GMAL</b>	<b>GMX</b>	<b>GMALSAB</b>
Normas de conformidad / Standards	IEC 60947-5-1, UL 508				
Intensidad de funcionamiento (A) Rated operational current (A)					
48Vac AC-15	5	6	5	6	6
125Vac	3	4	3	4	4
230Vac	1.5	4	1.5	4	4
400Vac	-	2.2	-	2.2	2.2
500Vac	-	1.5	-	1.5	1.5
690Vac	-	0.6	-	0.6	0.6
48Vdc DC-13	1.38	5	1.38	5	5
110Vdc	0.55	1.3	0.55	1.3	1.3
220Vdc	0.27	0.5	0.27	0.5	0.5
Tensión y corriente mínimas Min. voltage and current	17V 5mA				

# Esquemas de conexión / Wiring diagrams

• **MMS**

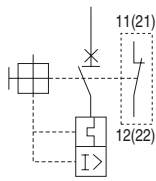
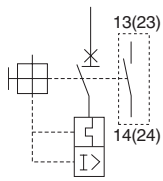


• **Contactos auxiliares / Auxiliary contact blocks**

Montaje frontal / Front mounting

GMAX110

GMAXI01

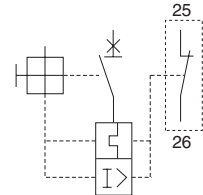
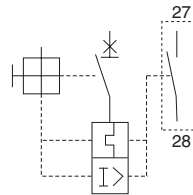


• **Contactos de alarma / Alarm contact blocks**

Montaje frontal / Front mounting

GMAL10

GMAL01



Montaje lateral / Side mounting

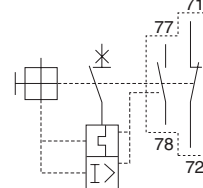
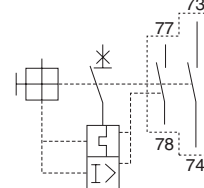
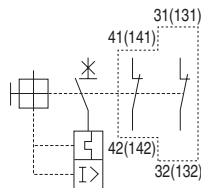
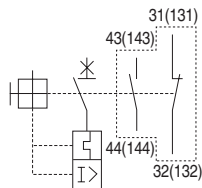
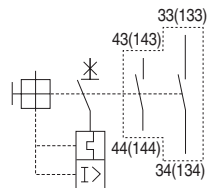
GMAXL20

GMAXL11

GMAXL02

GMXLAA

GMXLAB



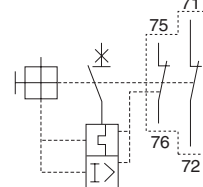
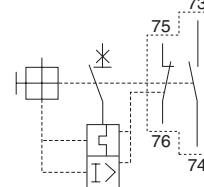
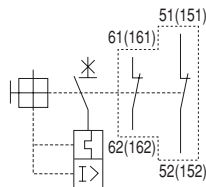
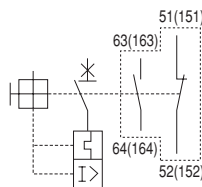
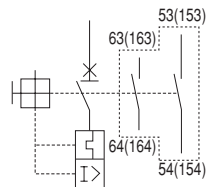
GMAXR20

GMAXR11

GMAXR02

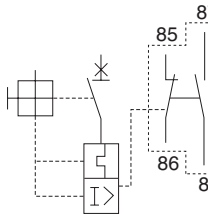
GMXLBA

GMAXLBB



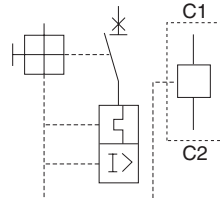
• **Contactos indicación cortocircuito**  
**Short-circuit alarm contact blocks**

GMALSAB



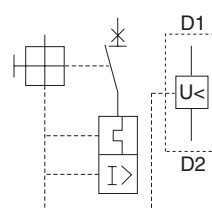
• **Bobina emisión**  
**Shunt trip devices**

GMSHT



• **Bobina mínima tensión**  
**Undervoltage trip devices**

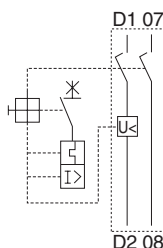
GMUVT



• **Bobina mínima tensión con bloque de contactos / Undervoltage trip devices with contact blocks**

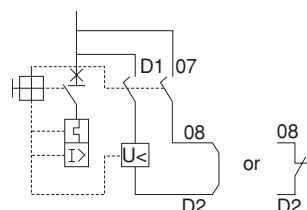
GMUVT

Conexión externa / External connection



No existirá indicación de disparo ni de estado siempre que el guardamotor se encuentre disparado por cortocircuito, sobrecarga o fallo de fase.

There may be no trip indication and no opening of the auxiliary contact even though the MMS is tripped due to short-circuit, overcurrent, or phase-loss.



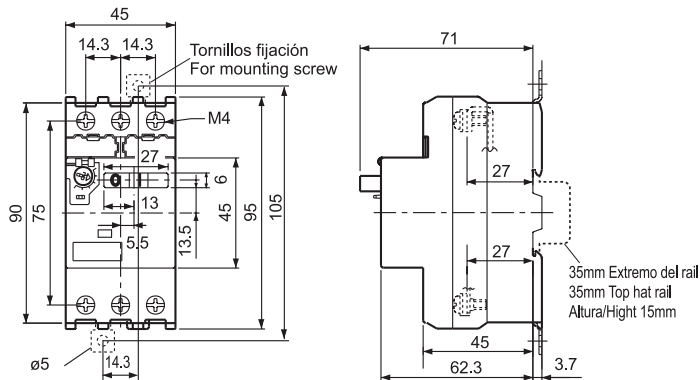
Además de la función de mínima tensión, este accesorio provoca la desconexión total del circuito de potencia como de control cuando el guardamotor está desconectado. No obstante, cuando el guardamotor está disparado por falta de tensión de control, deberá ser reseteado.

In addition to the functions of the undervoltage trip device, this device completely opens the main circuit and control circuit when the MMS is turned OFF. However, when the MMS is tripped by a drop in the control voltage, it must be reset.

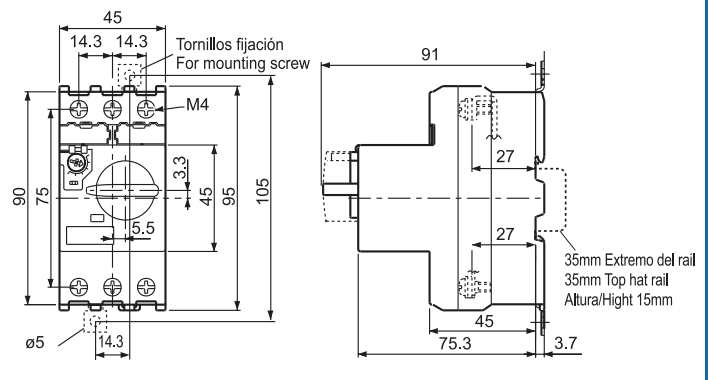


## Guardamotor magnetotérmico GM / Manual Motor Starter GM

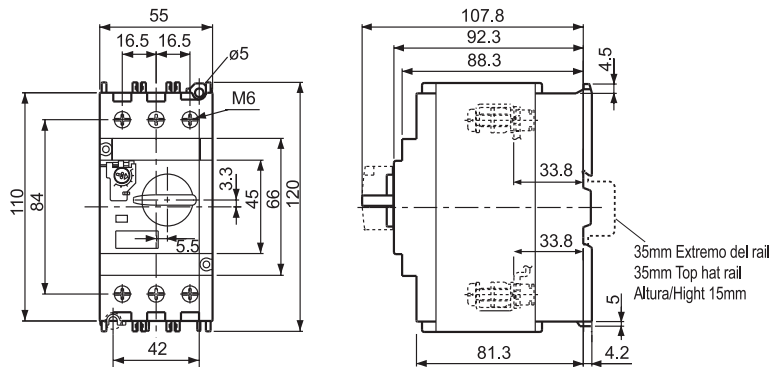
### • Mando interruptor GM1S Rocker handle GM1S



### • Mando rotativo GM1H Rotary handle GM1H



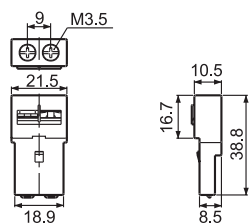
### • Mando rotativo GM2S, GM2H / Rotary handle GM2S, GM2H



## Accesorios / Accessories

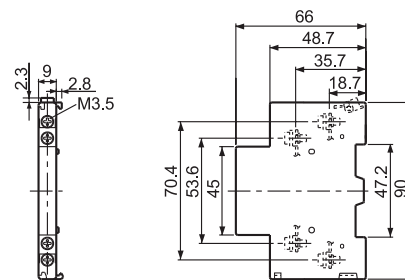
### • Contactos auxiliares, montaje frontal Auxiliary contact blocks, front mounting

GMAXI



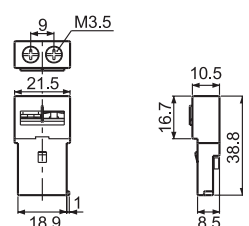
### • Contactos auxiliares, montaje lateral Auxiliary contact blocks, side mounting

GMAXL, GMAXR



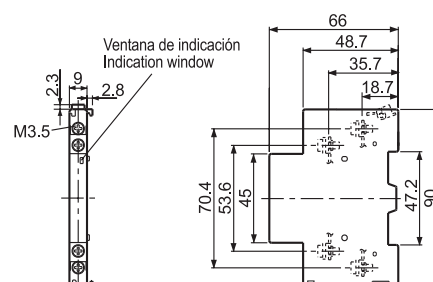
### • Contactos de alarma. Montaje frontal Alarm contact blocks, front mounting

GMAL



### • Contactos auxiliares, y alarma Auxiliary and alarm contact blocks

GMXL

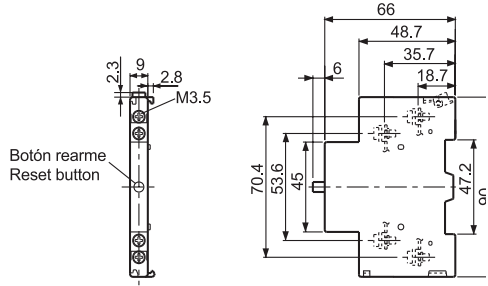


## Accesorios de guardamotor GM / Accessories for MMS GM

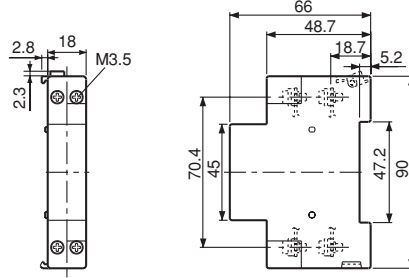
### Accesorios / Accessories

- Contactos indicación cortocircuito  
Short-circuit alarm contact block

GMALSAB

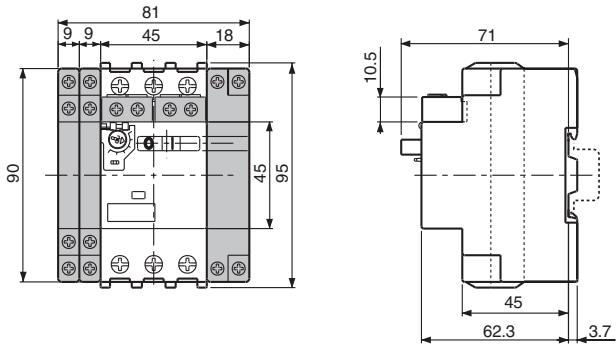


- Bobina de emisión GMSHT  
Bobina de mínima tensión GMUVT
- Shunt trip devices BZ0F  
Undervoltage trip devices BZ0R

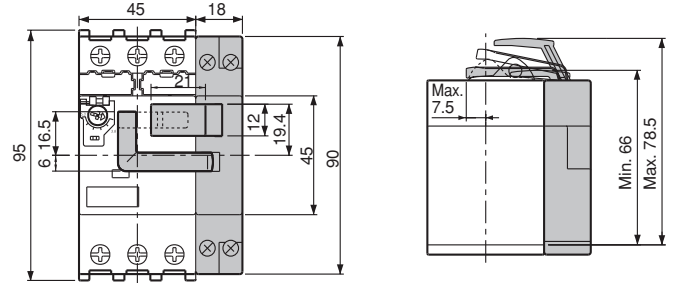


### • Guardamotor con accesorios / MMS with accessories

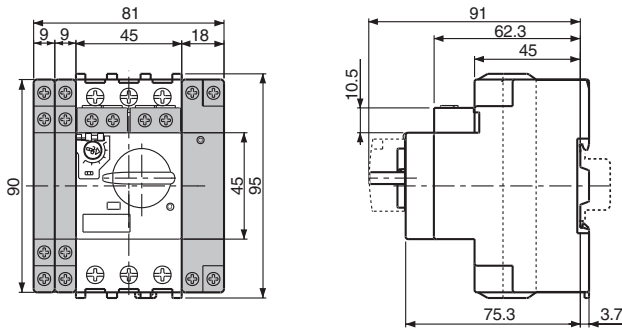
GM1S + GMAX



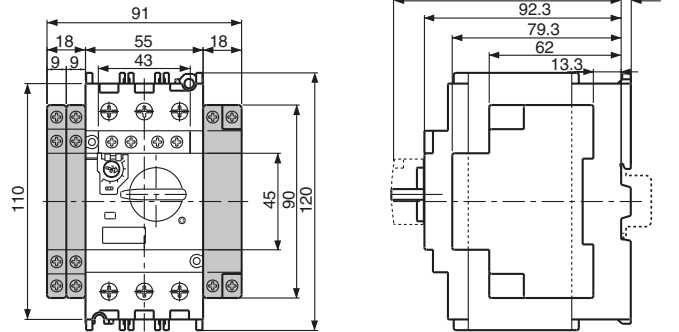
GM1S + GMUVT (Bobina mínima tensión/Undervoltage trip device)



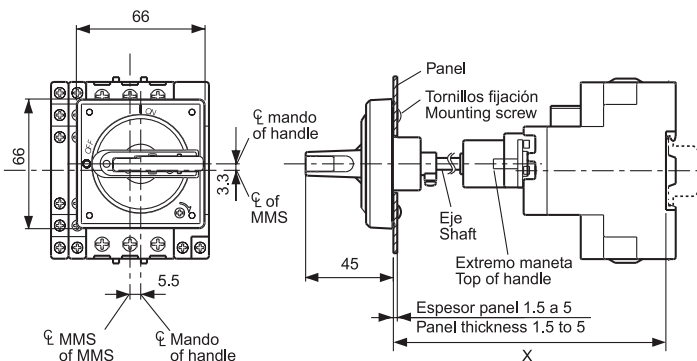
GM1H + GMAX



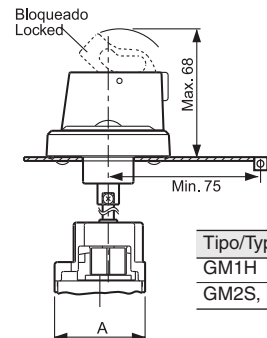
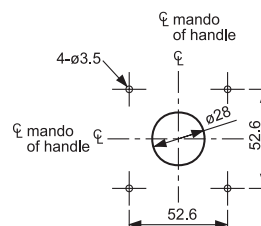
GM2S(N) + GMAXL, GMAXR



### Mando externo GM1HSB, GM1HER, GM2HSB, GM2HER External operation handle GM1HSB, GM1HER, GM2HSB, GM2HER



Taladros en panel  
Panel drilling



Tipo/Type	A
GM1H	48.5
GM2S, H	58.5

Tipo / Type	X min.	X max.
GM1HSB, GM1HER	139±2	289±2
GM2HSB, GM2HER	156±2	306±2