

PRODUCT-DETAILS

# MS165-73

## MS165-73 Manual Motor Starter 62 ... 73 A



### Información General

Tipo de producto extendido	MS165-73
Código de producto	1SAM451000R1018
EAN	4013614536625
Descripción corta	MS165-73 Manual Motor Starter 62 ... 73 A

Descripción larga	<p>MS165 is a compact and powerful range for motor protection up to 45 kW (400 V) / 80 A in width of 55 mm. They offer a reliable protection for motors in the event of overload or phase failure. The devices have trip class 10.</p> <p>This type has also a clear and reliable indication of fault in a separate window in the event of short-circuit tripping. Further features are the build-in disconnect function, temperature compensation, trip-free mechanism and a rotary handle with a clear switch position indication. The manual motor starter (also known as motor protection circuit breaker or manual motor protector) is suitable for three- and single phase applications. The handle is lockable to protect against unauthorized changes. Auxiliary contacts, signaling contacts, undervoltage releases, shunt trips, power in-feed blocks are available as accessory. These are suitable throughout the MS116/MS132/MS165 range.</p>
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### Clasificación

Cantidad mínima de pedido	1 piece
Código arancelario	85362090

### Descargas Populares

Ficha técnica, información técnica	2CDC131083D0201
Instrucciones y manuales	2CDC131081M6801
Instrucciones y manuales (parte 2)	2CDC131060M0202
Instrucciones de uso Ex	2CDC131087M6801
Curva característica tiempo-corriente	1SAM400505F0008
I <sup>2</sup> t Característica	1SAM400506F0001
Característica de la corriente de corte	1SAM400507F0001
Dibujo dimensional CAD	2CDC001079B0201
Diagrama de dimensiones	1SAM400401F0001

## Dimensiones

Ancho del product	55 mm
Alto del producto	142.65 mm
Largo del product	122 mm
Peso del product	1 kg

## Technical

Capacidad nominal de corte en cortocircuito en servicio (I <sub>cs</sub> )	(230 V AC) 30 kA (250 V DC) 3 Poles in Series 100 kA (400 V AC) 30 kA (440 V AC) 18 kA (500 V AC) 10 kA (690 V AC) 6 kA
Capacidad nominal de corte en cortocircuito (I <sub>cu</sub> )	(230 V AC) 30 kA (250 V DC) 100 kA (400 V AC) 30 kA (440 V AC) 18 kA (500 V AC) 10 kA (690 V AC) 8 kA
Ajuste de la corriente de cortocircuito instantánea nominal (I <sub>i</sub> )	1022 A
Rango de ajuste	62 ... 73 A
Potencia operativa nominal AC-3 (P <sub>e</sub> )	(400 V) Three Phase 37 kW
Potencia operativa nominal AC-3e (P <sub>e</sub> )	(400 V) Three Phase 37 kW
Tensión nominal de operación	Main Circuit 690 V AC Main Circuit 250 V DC
Corriente nominal de funcionamiento (I <sub>e</sub> )	73 A
Corriente nominal de funcionamiento AC-3 (I <sub>e</sub> )	73 A
Corriente nominal de funcionamiento AC-3e (I <sub>e</sub> )	73 A
Corriente nominal de funcionamiento DC-5 (I <sub>e</sub> )	73 A
Frecuencia nominal (f)	Main Circuit 50 Hz Main Circuit 60 Hz
Frecuencia de funcionamiento (f <sub>sw</sub> )	0 ... 415 Hz
Tensión nominal soportada por impulsos	Main Circuit 8 kV

(U <sub>imp</sub> )	
Tensión nominal de aislamiento (U <sub>i</sub> )	1000 V
Pérdida de potencia	at Rated Operating Conditions per Pole 5.22 ... 6.92 W
Número de polos	3
Corriente térmica convencional de aire libre (I <sub>th</sub> )	Main Circuit 73 A
Grado de protección	Housing IP20 Main Circuit Terminals IP10
Grado de contaminación	3
Durabilidad eléctrica	20000 cycle
Durabilidad mecánica	50000 cycle
Tipo de terminal	Screw Terminals
Capacidad de conexión del circuito principal	Flexible with Ferrule 1/2x 1 ... 35 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 35 mm <sup>2</sup> Flexible 1/2x 1 ... 35 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup> Solid 1/2x 1 ... 4 mm <sup>2</sup> Stranded 1/2x 1 ... 50 mm <sup>2</sup>
Par de apriete	Main Circuit 4 N-m
Longitud de pelado del cable	Main Circuit 16 mm
Destornillador recomendado	Pozidriv 2
Posición de montaje	1 ... 6
Montaje en contactores	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Distancia mínima de montaje	Electrical Conductive Board, Horizontal - Up to 1000 V 1.5 mm Electrical Conductive Board, Horizontal - Up to 400 V 0 mm Electrical Conductive Board, Horizontal - Up to 690 V 1.5 mm Electrical Conductive Board, Vertical 75 mm Other Device Same Type, Horizontal 0 mm Other Device Same Type, Vertical 150 mm
Tipo de actuador	Rotary Handle
Indicación de la posición del contacto	ON / OFF / TRIP
Normas	CSA 22.2 No. 14 IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-4-1

## Technical UL/CSA

Capacidad de corriente de cortocircuito (SCCR)	Manual Self-Protected Combination Controllers (Type E), (480Y / 277 V AC)
	50 kA
	Any UL Listed Fuses or Circuit-Breakers, Group Installations (480 V AC)
	50 kA
	Any UL Listed Fuses or Circuit-Breakers, Group Installations (600 V AC)
	10 kA
Tensión máxima de funcionamiento UL/CSA	Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (480 V AC)
	50 kA
	Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (600 V AC)
	10 kA
	Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (480Y / 277 V AC)
	50 kA
Potencia nominal UL/CSA	Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (600Y / 347 V AC)
	10 kA
	(200 V AC) Three Phase 20 Hp
	(208 V AC) Three Phase 20 Hp
	(220 ... 240 V AC) Three Phase 25 Hp
	(440 ... 480 V AC) Three Phase 50 Hp

	(550 ... 600 V AC) Three Phase 60 Hp
Amperios a plena carga Uso del motor	(110 ... 120 V AC) Three Phase 56 A (200 V AC) Three Phase 62.1 A (208 V AC) Three Phase 59.4 A (220 ... 240 V AC) Three Phase 68 A (440 ... 480 V AC) Three Phase 65 A (550 ... 600 V AC) Three Phase 62 A
Rotor bloqueado Amperios	(200 V AC) Three Phase 334 A (208 V AC) Three Phase 321 A (220 ... 240 V AC) Three Phase 365 A (440 ... 480 V AC) Three Phase 363 A (550 ... 600 V AC) Three Phase 348 A
Clasificación de uso general UL/CSA	(600 V AC) 73 A
Capacidad de conexión del circuito principal UL/CSA	Flexible 1/2x 16-0 AWG Stranded 1/2x 16-0 AWG
Par de apriete UL/CSA	Main Circuit 35 in-lb

## Ambiente

Temperatura ambiente	Funcionamiento -25 ... +60 °C Operation Compensated -25 ... +60 °C Almacenamiento -50 ... +80 °C
Compensación de la temperatura del aire ambiente	Yes
Altitud máxima de funcionamiento permisible	2000 m
Resistencia a los golpes según IEC 60068-2-27	11 ms Pulse 25g
Resistencia a las vibraciones según IEC 60068-2-6	mounted on DIN-rail: 4g / 3 ... 150 Hz mounted on mounting plate: 5g / 3 ... 150 Hz 5g / 3 ... 150 Hz
Estado de RoHS	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## Certificados y Declaraciones (Número de Documento)

Certificado ATEX	1SAA918001-3901
Certificado CB	1SAA918002-2002
Certificado CQC	CQC2015010307760141
Característica de la corriente de corte	1SAM400507F0001
Declaración de conformidad - CCC	2020980307003042
Declaración de conformidad - CE	1SAD101100-3408
Declaración de conformidad - UKCA	1SAD201100-3408
Certificado EAC	1SAA963000-2701
I <sup>2</sup> t Característica	1SAM400506F0001
Certificado IECEx	1SAA918000-4001
Certificado UL	E137861-20150206 E345003-20150206

## Información de Embalaje

Embalaje Nivel 1 Unidades	box 1 piece
Embalaje Nivel 1 Ancho	64 mm

Embalaje Nivel 1 Largo	177 mm
Embalaje Nivel 1 Alto	140 mm
Embalaje Nivel 1 Peso	1.1 kg
Embalaje Nivel 1 EAN	4013614536625
Embalaje Nivel 2 Unidades	carton 12 piece
Embalaje Nivel 2 Ancho	330 mm
Embalaje Nivel 2 Largo	400 mm
Embalaje Nivel 2 Alto	320 mm
Embalaje Nivel 2 Peso	13 kg
Nivel de paquete 2 EAN	4013614537813

## Clasificaciones

Código de clasificación de objetos	F
ETIM 5	EC000074 - Motor protective circuit-breaker
ETIM 6	EC000074 - Motor protection circuit-breaker
ETIM 7	EC000074 - Motor protection circuit-breaker
ETIM 8	EC000074 - Motor protection circuit-breaker
Clase electrónica	V11.0 : 27370401
UNSPSC	39121521
Código de categoría granular de IDEA (IGCC)	4731 >> Manual Starters
Número E (Finlandia)	3708083

## Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
1SAM201901R1001	HKF1-11 Auxiliary Contact	HKF1-11	1	piece
1SAM201901R1201	HKF1-11K Auxiliary Contact	HKF1-11K	1	piece
1SAM201901R1002	HKF1-20 Auxiliary Contact	HKF1-20	1	piece
1SAM201901R1202	HKF1-20K Auxiliary Contact	HKF1-20K	1	piece
1SAM201901R1004	HKF1-01 Auxiliary Contact	HKF1-01	1	piece
1SAM201901R1003	HKF1-10 Auxiliary Contact	HKF1-10	1	piece
1SAM201902R1002	HK1-20 Auxiliary Contact	HK1-20	1	piece
1SAM201902R1202	HK1-20K Auxiliary Contact	HK1-20K	1	piece
1SAM201902R1001	HK1-11 Auxiliary Contact	HK1-11	1	piece
1SAM201902R1201	HK1-11K Auxiliary Contact	HK1-11K	1	piece
1SAM201902R1003	HK1-02 Auxiliary Contact	HK1-02	1	piece
1SAM201902R1203	HK1-02K Auxiliary Contact	HK1-02K	1	piece
1SAM201902R1004	HK1-20L Auxiliary Contact	HK1-20L	1	piece
1SAM201902R1204	HK1-20LK Auxiliary Contact	HK1-20LK	1	piece
1SAM201903R1002	SK1-20 Signaling Contact	SK1-20	1	piece
1SAM201903R1202	SK1-20K Signaling Contact	SK1-20K	1	piece
1SAM201903R1005	SK1-20AR Signaling Contact	SK1-20AR	1	piece
1SAM201903R1205	SK1-20ARK Signaling Contact	SK1-20ARK	1	piece
1SAM201903R1001	SK1-11 Signaling Contact	SK1-11	1	piece
1SAM201903R1201	SK1-11K Signaling Contact	SK1-11K	1	piece
1SAM201903R1004	SK1-11AR Signaling Contact	SK1-11AR	1	piece
1SAM201903R1204	SK1-11ARK Signaling Contact	SK1-11ARK	1	piece
1SAM201903R1003	SK1-02 Signaling Contact	SK1-02	1	piece
1SAM201903R1203	SK1-02K Signaling Contact	SK1-02K	1	piece
1SAM201903R1006	SK1-02AR Signaling Contact	SK1-02AR	1	piece

1SAM201903R1206	SK1-02ARK Signaling Contact	SK1-02ARK	1	piece
1SAM301901R1002	CK1-20 Short Circuit Signaling Contact	CK1-20	1	piece
1SAM301901R1001	CK1-11 Short Circuit Signaling Contact	CK1-11	1	piece
1SAM301901R1003	CK1-02 Short Circuit Signaling Contact	CK1-02	1	piece
1SAM201910R1001	AA1-24 Shunt Trip	AA1-24	1	piece
1SAM201910R1002	AA1-110 Shunt Trip	AA1-110	1	piece
1SAM201910R1003	AA1-230 Shunt Trip	AA1-230	1	piece
1SAM201910R1004	AA1-400 Shunt Trip	AA1-400	1	piece
1SAM201904R1010	UA1-20 Undervoltage Release	UA1-20	1	piece
1SAM201904R1001	UA1-24 Undervoltage Release	UA1-24	1	piece
1SAM201904R1002	UA1-48 Undervoltage Release	UA1-48	1	piece
1SAM201904R1003	UA1-60 Undervoltage Release	UA1-60	1	piece
1SAM201904R1004	UA1-110 Undervoltage Release	UA1-110	1	piece
1SAM201904R1008	UA1-208 Undervoltage Release	UA1-208	1	piece
1SAM201904R1005	UA1-230 Undervoltage Release	UA1-230	1	piece
1SAM201904R1006	UA1-400 Undervoltage Release	UA1-400	1	piece
1SAM201904R1007	UA1-415 Undervoltage Release	UA1-415	1	piece
1SAM201904R1009	UA1-575 Undervoltage Release	UA1-575	1	piece
1SAM401923R1003	S2-M3-50 Power Infeed Block	S2-M3-50	1	piece
1SAM401920R1002	PS2-2-0-125 Busbar	PS2-2-0-125	1	piece
1SAM401920R1003	PS2-3-0-125 Busbar	PS2-3-0-125	1	piece
1SAM401920R1004	PS2-4-0-125 Busbar	PS2-4-0-125	1	piece
1SAM401920R1022	PS2-2-2-125 Busbar	PS2-2-2-125	1	piece
1SAM401920R1023	PS2-3-2-125 Busbar	PS2-3-2-125	1	piece
1SAM401920R1024	PS2-4-2-125 Busbar	PS2-4-2-125	1	piece
1SAM401921R1001	BS2-3 Protection Cover	BS2-3	1	piece
1SAM401922R1001	KA165 Terminal Shroud	KA165	1	piece
GJF1101903R0002	SA2 Dispositivo enclavamiento	SA2	1	piece
1SAM201920R1011	MSHD-LTB Handles	MSHD-LTB	1	piece
1SAM201920R1012	MSHD-LTY Handles	MSHD-LTY	1	piece
1SAM201920R1000	MSH-AR Shaft Alignment Ring	MSH-AR	1	piece
1SAM101923R0002	MSMN Driver	MSMN	1	piece
1SAM101923R0012	MSMNO Driver	MSMNO	1	piece
1SCA101647R1001	OXS6X85 SHAFT	OXS6X85	1	piece
1SCA108043R1001	OXS6X105 SHAFT	OXS6X105	1	piece
1SCA101655R1001	OXS6X130 SHAFT	OXS6X130	1	piece
1SCA101659R1001	OXS6X180 SHAFT	OXS6X180	1	piece

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## Categorías

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Productos y sistemas de baja tensión → Aparatos de control → Guardamotores → Guardamotores

Productos y sistemas de baja tensión → Interruptores automáticos → Guardamotores

