

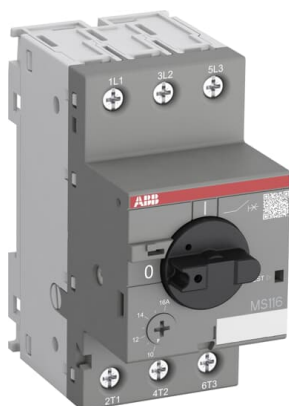



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 PRODUCT-DETAILS

# MS116-10

## MS116-10 Manual Motor Starter 6.3 ... 10 A




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**Información General**

Tipo de producto extendido	MS116-10
Código de producto	1SAM250000R1010
EAN	4013614320330
Descripción corta	MS116-10 Manual Motor Starter 6.3 ... 10 A
Descripción larga	The MS116-10 manual motor starter (also known as motor protection circuit breaker or manual motor protector) is a compact 45 mm width device with a rated operational current of $I_e = 10.0$ A. This device is used to manually switch on and off motors and to protect them reliably and without the need for a fuse from short-circuits, overload and phase failures. The manual motor starter offers a rated service short-circuit breaking capacity $I_{cs} = 50$ kA at 400 VAC and trip class 10A.

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**Clasificación**

Cantidad mínima de pedido	1 piece
Código arancelario	85362010

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**Descargas Populares**

Ficha técnica, información	2CDC131025D0201
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## técnica

Instrucciones y manuales	2CDC131011M6802
Instrucciones y manuales (parte 2)	2CDC131060M0202
Curva característica tiempo-corriente	1SAM200505F0010
I <sup>2</sup> t Característica	1SAM200507F0001 1SAM200507F0002 1SAM200507F0003
Característica de la corriente de corte	1SAM200508F0001 1SAM200508F0002 1SAM200508F0003
Dibujo dimensional CAD	2CDC001079B0201
Diagrama de dimensiones	1SAM200422F0001

## Dimensiones

Ancho del product	45 mm
Alto del producto	90 mm
Largo del product	85.6 mm
Peso del product	0.265 kg

## Technical

Capacidad nominal de corte en cortocircuito en servicio (I <sub>cs</sub> )	(230 V AC) 50 kA (400 V AC) 50 kA (440 V AC) 6 kA (500 V AC) 6 kA (690 V AC) 2 kA
Capacidad nominal de corte en cortocircuito (I <sub>cu</sub> )	(230 V AC) 75 kA (400 V AC) 75 kA (440 V AC) 18 kA (500 V AC) 15 kA (690 V AC) 3 kA
Ajuste de la corriente de cortocircuito instantánea nominal (I <sub>i</sub> )	150 A
Rango de ajuste	6.3 ... 10 A
Potencia operativa nominal AC-3 (P <sub>e</sub> )	(400 V) Three Phase 4 kW
Potencia operativa nominal AC-3e (P <sub>e</sub> )	(400 V) Three Phase 4 kW
Tensión nominal de operación	Main Circuit 690 V AC
Corriente nominal de funcionamiento (I <sub>e</sub> )	10 A
Corriente nominal de funcionamiento AC-3 (I <sub>e</sub> )	10 A
Corriente nominal de funcionamiento AC-3e (I <sub>e</sub> )	10 A
Frecuencia nominal (f)	Main Circuit 50 Hz Main Circuit 60 Hz
Tensión nominal soportada por impulsos (U <sub>imp</sub> )	Main Circuit 6 kV
Tensión nominal de aislamiento (U <sub>i</sub> )	690 V
Pérdida de potencia	at Rated Operating Conditions per Pole 0.9 ... 2.4 W
Número de polos	3
Corriente térmica convencional de aire libre (I <sub>th</sub> )	Main Circuit 10 A
Grado de protección	Housing IP20 Main Circuit Terminals IP10

Grado de contaminación	3
Durabilidad eléctrica	100000 cycle
Durabilidad mecánica	100000 cycle
Tipo de terminal	Screw Terminals
Capacidad de conexión del circuito principal	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>
Par de apriete	Main Circuit 0.8 ... 1.2 N·m
Longitud de pelado del cable	Main Circuit 9 mm
Destornillador recomendado	Pozidriv 2
Posición de montaje	any 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 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
Normas	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1

## Technical UL/CSA

Capacidad de corriente de cortocircuito (SCCR)	Any UL Listed Fuses or Circuit-Breakers, Group Installations (480 V AC) 18 kA Any UL Listed Fuses or Circuit-Breakers, Group Installations (600 V AC) 5 kA Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (480 V AC) 18 kA Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (600 V AC) 5 kA
Tensión máxima de funcionamiento UL/CSA	Main Circuit 600 V AC
Potencia nominal UL/CSA	(200 V AC) Three Phase 2 Hp (208 V AC) Three Phase 2 Hp (220 ... 240 V AC) Three Phase 3 Hp (440 ... 480 V AC) Three Phase 5 Hp (550 ... 600 V AC) Three Phase 7.5 Hp
Amperios a plena carga Uso del motor	(200 V AC) Three Phase 7.8 A (208 V AC) Three Phase 7.5 A (220 ... 240 V AC) Three Phase 9.6 A (440 ... 480 V AC) Three Phase 7.6 A (550 ... 600 V AC) Three Phase 9 A
Rotor bloqueado Amperios	(200 V AC) Three Phase 57.5 A (208 V AC) Three Phase 55 A (220 ... 240 V AC) Three Phase 64 A (440 ... 480 V AC) Three Phase 46 A (550 ... 600 V AC) Three Phase 50.8 A
Clasificación de uso general UL/CSA	(600 V AC) 10 A
Capacidad de conexión del circuito principal UL/CSA	Flexible 1/2x 16-12 AWG Stranded 1/2x 16-12 AWG
Par de apriete UL/CSA	Main Circuit 10 in·lb

## Ambiente

Temperatura ambiente	Around the Enclosure 0 ... +40 °C Funcionamiento -25 ... +70 °C Operation Compensated -25 ... +55 °C Almacenamiento -50 ... +80 °C
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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	5g 3 ... 150 Hz

## Material Compliance

Plantilla de notificación de minerales de conflicto (CMRT)	9AKK108467A5658
Declaración REACH	1SAA963005-4502
Información sobre RoHS	1SAA963006-4502
Estado de RoHS	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006539
WEEE B2C / B2B	Business To Business
Categoría RAEE	5. Small Equipment (No External Dimension More Than 50 cm)

## Circular Value

Instrucciones para el final de la vida	1SAC200331H0001
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## Certificados y Declaraciones (Número de Documento)

Certificado ABS	1SAA963000-0104
Certificado BV	1SAA963000-0204
Certificado CB	1SAA963005-2003 1SAA963006-2001
Certificado CQC	CQC2011010307506570 CQC2014010307744794
Característica de la corriente de corte	1SAM200508F0001 1SAM200508F0002 1SAM200508F0003
Declaración de conformidad - CCC	2020980307003705 2020980307003043
Declaración de conformidad - CE	1SAD101100-3401
Declaración de conformidad - UKCA	1SAD201100-3401
Certificado DNV	1SAA963000-0304
Certificado DNV GL	1SAA963000-0304
Certificado EAC	1SAA963000-2701
Certificado GL	1SAA963000-0402
1ª Característica	1SAM200507F0001 1SAM200507F0002 1SAM200507F0003
Certificado KC	1SAA963000-1501
Certificado LR	1SAA963000-0505
Certificado RMRS	1SAA918000-0704
Certificado UL	E137861-20001218

## Información de Embalaje

Embalaje Nivel 1	box 1 piece
Unidades	
Embalaje Nivel 1 Ancho	92 mm
Embalaje Nivel 1 Largo	95 mm
Embalaje Nivel 1 Alto	50 mm
Embalaje Nivel 1 Peso	0.28 kg
Embalaje Nivel 1 EAN	4013614320330
Embalaje Nivel 2	carton 40 piece
Unidades	
Embalaje Nivel 2 Ancho	280 mm
Embalaje Nivel 2 Largo	395 mm
Embalaje Nivel 2 Alto	210 mm
Embalaje Nivel 2 Peso	11.586 kg
Nivel de paquete 2 EAN	4013614408700

## Clasificaciones

Código de clasificación de objetos	F
ETIM 4	EC000074 - Motor protective circuit-breaker
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)	3706010
Número E (Suecia)	3111948

## Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
1SAM201901R1001	HKF1-11 Aux.-contact for front mounting	HKF1-11	1	piece
1SAM201901R1201	HKF1-11K Aux.-contact for frontmounting with Push-In terminals	HKF1-11K	1	piece
1SAM201901R1002	HKF1-20 Aux.-contact 2NO, front mounting	HKF1-20	1	piece
1SAM201901R1202	HKF1-20K Aux.-contact for frontmounting with Push-In terminals	HKF1-20K	1	piece
1SAM201901R1004	HKF1-01 Aux.-contact for front mounting	HKF1-01	1	piece
1SAM201901R1003	HKF1-10 Aux.-contact for front mounting	HKF1-10	1	piece
1SAM201902R1002	HK1-20 Aux.-contact 2 NO	HK1-20	1	piece
1SAM201902R1202	HK1-20K Aux.-contact 2 NO with Push-In terminals	HK1-20K	1	piece
1SAM201902R1001	HK1-11 Aux.-contact 1 NO + 1 NC	HK1-11	1	piece
1SAM201902R1201	HK1-11K Aux.-contact 1 NO + 1 NC with Push-In terminals	HK1-11K	1	piece
1SAM201902R1003	HK1-02 Aux.-contact 2 NC	HK1-02	1	piece
1SAM201902R1203	HK1-02K Aux.-contact 2 NC with Push-In terminals	HK1-02K	1	piece
1SAM201902R1004	HK1-20L Aux.-cont. w. 2 lead contacts 2 NO	HK1-20L	1	piece
1SAM201902R1204	HK1-20LK Aux.-cont. w. 2 leading contacts 2 NO, with Push-In terminals	HK1-20LK	1	piece
1SAM201903R1002	SK1-20 Signaling Contact 2 NO	SK1-20	1	piece
1SAM201903R1202	SK1-20K Signaling Contact 2 NO with Push-In terminals	SK1-20K	1	piece
1SAM201903R1005	SK1-20AR Signaling Contact, 2NO with screw terminals	SK1-20AR	1	piece

1SAM201903R1205	SK1-20ARK Signaling Contact, 2NO with Push-in Spring terminals	SK1-20ARK	1	piece
1SAM201903R1001	SK1-11 Signaling Contact 1 NO + 1 NC	SK1-11	1	piece
1SAM201903R1201	SK1-11K Signaling Contact 1 NO + 1 NC with Push-In terminals	SK1-11K	1	piece
1SAM201903R1004	SK1-11AR Signaling Contact, 1NO+1NC with screw terminals	SK1-11AR	1	piece
1SAM201903R1204	SK1-11ARK Signaling Contact, 1NO+1NC with Push-in Spring terminals	SK1-11ARK	1	piece
1SAM201903R1003	SK1-02 Signaling Contact 2 NC	SK1-02	1	piece
1SAM201903R1203	SK1-02K Signaling Contact 2 NC with Push-In terminals	SK1-02K	1	piece
1SAM201903R1006	SK1-02AR Signaling Contact, 2NC with screw terminals	SK1-02AR	1	piece
1SAM201903R1206	SK1-02ARK Signaling Contact, 2NC with Push-in Spring terminals	SK1-02ARK	1	piece
1SAM201910R1001	AA1-24 Shunt Trip 20-24V	AA1-24	1	piece
1SAM201910R1002	AA1-110 Shunt Trip 110V	AA1-110	1	piece
1SAM201910R1003	AA1-230 Shunt Trip 200-240V	AA1-230	1	piece
1SAM201910R1004	AA1-400 Shunt Trip 350-415V	AA1-400	1	piece
1SAM201904R1010	UA1-20 Undervoltage release 20V 50Hz / 24V 60 Hz	UA1-20	1	piece
1SAM201904R1001	UA1-24 Undervoltage release 24 V	UA1-24	1	piece
1SAM201904R1002	UA1-48 Undervoltage release 48V	UA1-48	1	piece
1SAM201904R1003	UA1-60 Undervoltage release 60V	UA1-60	1	piece
1SAM201904R1004	UA1-110 Undervoltage release 110V 110V 50Hz/120V 60Hz	UA1-110	1	piece
1SAM201904R1008	UA1-208 Undervoltage release 208V 60Hz	UA1-208	1	piece
1SAM201904R1005	UA1-230 Undervoltage release 230 V 50 Hz / 240 V 60 Hz	UA1-230	1	piece
1SAM201904R1006	UA1-400 Undervoltage release 400V	UA1-400	1	piece
1SAM201904R1007	UA1-415 Undervoltage release 415V 415V 50Hz/480V 60Hz	UA1-415	1	piece
1SAM201904R1009	UA1-575 Undervoltage release 575V 60Hz	UA1-575	1	piece
1SAM201906R1102	PS1-2-0-65 3-phase busbar for 2 MS116 / MS132, Ie=65A	PS1-2-0-65	1	piece
1SAM201906R1112	PS1-2-1-65 3-phase busbar for 2 MS116 / MS132 with 1 HK/SK, Ie=65A	PS1-2-1-65	1	piece
1SAM201906R1122	PS1-2-2-65 3-phase busbar for 2 MS116 / MS132 with 2 HK/SK, Ie=65A	PS1-2-2-65	1	piece
1SAM201916R1103	PS1-3-0-100 3-phase busbar for 3 MS116 / MS132, Ie=100A	PS1-3-0-100	1	piece
1SAM201906R1103	PS1-3-0-65 3-phase busbar for 3 MS116 / MS132, Ie=65A	PS1-3-0-65	1	piece
1SAM201916R1113	PS1-3-1-100 3-phase busbar for 3 MS116 / MS132 with 1 HK/SK, Ie=100A	PS1-3-1-100	1	piece
1SAM201906R1113	PS1-3-1-65 3-phase busbar for 3 MS116 / MS132 with 1 HK/SK, Ie=65A	PS1-3-1-65	1	piece
1SAM201916R1123	PS1-3-2-100 3-phase busbar for 3 MS116 / MS132 with 2 HK/SK, Ie=100A	PS1-3-2-100	1	piece
1SAM201906R1123	PS1-3-2-65 3-phase busbar for 3 MS116 / MS132 with 2 HK/SK, Ie=65A	PS1-3-2-65	1	piece
1SAM201916R1104	PS1-4-0-100 3-phase busbar for 4 MS116 / MS132, Ie=100A	PS1-4-0-100	1	piece
1SAM201906R1104	PS1-4-0-65 3-phase busbar for 4 MS116 / MS132, Ie=65A	PS1-4-0-65	1	piece
1SAM201916R1114	PS1-4-1-100 3-phase busbar for 4 MS116 / MS132 with 1 HK/SK, Ie=100A	PS1-4-1-100	1	piece
1SAM201906R1114	PS1-4-1-65 3-phase busbar for 4 MS116 / MS132 with 1 HK/SK, Ie=65A	PS1-4-1-65	1	piece
1SAM201906R1124	PS1-4-2-65 3-phase busbar for 4 MS116 / MS132 with 2 HK/SK, Ie=65A	PS1-4-2-65	1	piece
1SAM201916R1105	PS1-5-0-100 3-phase busbar for 5 MS116 / MS132, Ie=100A	PS1-5-0-100	1	piece
1SAM201906R1105	PS1-5-0-65 3-phase busbar for 5 MS116 / MS132, Ie=65A	PS1-5-0-65	1	piece

1SAM201916R1115	PS1-5-1-100 3-phase busbar for 5 MS116 / MS132 with 1 HK/SK, Ie=100A	PS1-5-1-100	1	piece
1SAM201906R1115	PS1-5-1-65 3-phase busbar for 5 MS116 / MS132 with 1 HK/SK, Ie=65A	PS1-5-1-65	1	piece
1SAM201906R1125	PS1-5-2-65 3-phase busbar for 5 MS116 / MS132 with 2 HK/SK, Ie=65A	PS1-5-2-65	1	piece
1SAM201907R1101	S1-M1-25 3-phase power infeed block Flat, for MS116 / MS132, 25mm <sup>2</sup>	S1-M1-25	1	piece
1SAM201907R1102	S1-M2-25 3-phase power infeed block High, for MS116 / MS132, 25mm <sup>2</sup>	S1-M2-25	1	piece
1SAM201907R1103	S1-M3-25 3-phase power infeed block Flat, for MS116 / MS132, 25mm <sup>2</sup> , Type E	S1-M3-25	1	piece
1SAM201913R1103	S1-M3-35 3-phase power infeed block Flat, for MS116 / MS132, 35mm <sup>2</sup> , Type E	S1-M3-35	1	piece
1SAM201914R1002	S1-PB1-25 1-phase power infeed block for MS116 / MS132 / MS132-T, 25mm <sup>2</sup> , IEC	S1-PB1-25	1	piece
1SAM201914R1001	PB1-1-32 phase connecting link for MS116 / MS132 / MS132-T, Ie=32A	PB1-1-32	1	piece
1SAM201908R1001	BS1-3 Protection Cover for busbars empty places	BS1-3	1	piece
1SAM201909R1001	FS116 Screw fixing kit for MS116, MS/MO132 10 pieces packed	FS116	1	piece
GJF1101903R0001	SA1 Dispositivo enclavamiento	SA1	1	piece
GJF1101903R0002	SA2 Dispositivo enclavamiento	SA2	1	piece
GJF1101903R0003	SA3 Terminals and Installation Material	SA3	1	piece
1SAM201911R1012	IB132-F Enclosure, GY/RD, IP65 3 times lockable	IB132-F	1	piece
1SAM201911R1010	IB132-G Enclosure, GY/BK, IP65 Standard version, 3 times lockable	IB132-G	1	piece
1SAM201911R1011	IB132-Y Enclosure, RD/YE, IP65 Emergency-STOP, 3 times lockable	IB132-Y	1	piece
1SAM201912R1010	DMS132-G Door Mounting Kit, GY/BK, IP65 Standard version, 3 times lockable	DMS132-G	1	piece
1SAM201912R1011	DMS132-Y Door Mounting Kit, RD/YE, IP65 Emergency-STOP, 3 times lockable	DMS132-Y	1	piece
1SAM201909R1021	MSAH1 Shaft Supporter suitable for MS116, MS132/MO132	MSAH1	1	piece
1SAM201920R1001	MSHD-LB Handle, IP64, black, 3 times lockable, defeatable, 0-I	MSHD-LB	1	piece
1SAM201920R1002	MSHD-LY Handle, IP64, red/yellow, 3 times lockable, defeatable, 0-I	MSHD-LY	1	piece
1SAM201920R1000	MSH-AR Shaft alignment ring suitable for MSHD and MSH handles	MSH-AR	1	piece
1SAM101923R0002	MSMN Driver w. screw for manual motor stators, 6x6	MSMN	1	piece
1SCA101655R1001	OXS6X130 SHAFT	OXS6X130	1	piece
1SAM101923R0012	MSMNO Driver w/o coding w. screw for manual motor stators, 6x6	MSMNO	1	piece
1SCA101659R1001	OXS6X180 SHAFT	OXS6X180	1	piece
1SCA101647R1001	OXS6X85 SHAFT	OXS6X85	1	piece
1SCA108043R1001	OXS6X105 SHAFT	OXS6X105	1	piece

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## Categorias

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

