

PRODUCT-DETAILS

# MS165-32

## MS165-32 Manual Motor Starter 23 ... 32 A



### Informations générales

Extension du type de produit	MS165-32
Code de produit	1SAM451000R1014
EAN	4013614486081
Description courte	MS165-32 Manual Motor Starter 23 ... 32 A

Description longue	<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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### Commande

Quantité minimum	1 pièce
Code douanier	85362010

### Downloads Préférés

Fiche produit, informations techniques	2CDC131083D0201
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Instructions et manuels	2CDC131081M6801
Instructions et manuels (Partie 2)	2CDC131060M0202
Ex Operating Instructions	2CDC131087M6801
Time-Current Characteristic Curve	1SAM400505F0004
I <sup>2</sup> t Characteristic	1SAM400506F0001
Cut-off Current Characteristic	1SAM400507F0001
CAD Dimensional Drawing	2CDC001079B0201
Schéma dimensionnel	1SAM400401F0001

## Dimensions

Produit Largeur Net	55 mm
Produit Hauteur Net	142.65 mm
Produit Longueur Net	122.1 mm
Poids net	0.97 kg

## Technique

Pouvoir assigné de coupure de service en court-circuit ( $I_{CS}$ )	(230 V AC) 100 kA (250 V DC) 3 Poles in Series 100 kA (400 V AC) 100 kA (440 V AC) 50 kA (500 V AC) 30 kA (690 V AC) 10 kA
Pouvoir assigné de coupure ultime en court- circuit ( $I_{CU}$ )	(230 V AC) 100 kA (250 V DC) 100 kA (400 V AC) 100 kA (440 V AC) 50 kA (500 V AC) 30 kA (690 V AC) 10 kA
Courant assigné instantané de réglage de court-circuit ( $I_i$ )	480 A
Setting Range	23 ... 32 A
Puissance assignée d'emploi AC-3 ( $P_e$ )	(400 V) Three Phase 15 kW
Puissance assignée d'emploi AC-3e ( $P_e$ )	(400 V) Three Phase 15 kW
Tension	Circuit principal 690 V AC Circuit principal 250 V DC
Courant nominal de fonctionnement ( $I_e$ )	32 A
Courant assignée d'emploi AC-3 ( $I_e$ )	32 A
Courant assignée d'emploi AC-3e ( $I_e$ )	32 A
Courant assignée d'emploi DC-5 ( $I_e$ )	32 A
Fréquence assignée (f)	Circuit principal 50 Hz Circuit principal 60 Hz
Operating Frequency ( $f_{sw}$ )	0 ... 415 Hz
Tension assignée de tenue aux chocs ( $U_{imp}$ )	Circuit principal 8 kV
Tension assignée d'isolement ( $U_i$ )	1000 V

Power Loss	at Rated Operating Conditions per Pole 2.27 ... 4.40 W
Nombre de pôles	3
Courant thermique conventionnel à l'air libre ( $I_{th}$ )	Main Circuit 32 A
Indice de protection	Housing IP20 Main Circuit Terminals IP10
Degré de pollution	3
Electrical Durability	25000 cycle
Durabilité mécanique	50000 cycle
Type de borne	Screw Terminals
Connecting Capacity Main Circuit	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>
Couple de serrage	Main Circuit 4 N·m
Wire Stripping Length	Main Circuit 16 mm
Recommended Screw Driver	Pozidriv 2
Type d'encastrement	1 ... 6
Montage sur rail DIN	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
Minimum Mounting Distance	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
Actuator Type	Rotary Handle
Contact Position Indication	ON / OFF / TRIP
Normes et standards	CSA 22.2 No. 14 IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-4-1

## Technique UL/CSA

Short-Circuit Current Rating (SCCR)	Manual Self-Protected Combination Controllers (Type E), (480Y / 277 V AC) 65 kA
	Manual Self-Protected Combination Controllers (Type E), (600Y / 347 V AC) 30 kA
Maximum Operating Voltage UL/CSA	Any UL Listed Fuses or Circuit-Breakers, Group Installations (480 V AC) 65 kA
	Any UL Listed Fuses or Circuit-Breakers, Group Installations (600 V AC) 30 kA
	Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (480 V AC) 65 kA
	Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (600 V AC) 30 kA
	Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (480Y / 277 V AC) 65 kA
	Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (600Y / 347 V AC) 30 kA
Maximum Operating Voltage UL/CSA	Circuit principal 600 V AC
Puissance nominale UL/CSA	(200 V AC) Three Phase 7.5 Hp
	(208 V AC) Three Phase 10 Hp
	(220 ... 240 V AC) Three Phase 10 Hp
	(440 ... 480 V AC) Three Phase 20 Hp
	(550 ... 600 V AC) Three Phase 30 Hp
Full Load Amps Motor Use	(200 V AC) Three Phase 25.3 A
	(208 V AC) Three Phase 30.8 A
	(220 ... 240 V AC) Three Phase 28 A
	(440 ... 480 V AC) Three Phase 27 A
	(550 ... 600 V AC) Three Phase 32 A
Locked Rotor Amps	(200 V AC) Three Phase 146 A

	(208 V AC) Three Phase 179 A (220 ... 240 V AC) Three Phase 162 A (440 ... 480 V AC) Three Phase 145 A (550 ... 600 V AC) Three Phase 174 A
General Use Rating UL/CSA	(600 V AC) 32 A
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 16-0 AWG Stranded 1/2x 16-0 AWG
Tightening Torque UL/CSA	Main Circuit 35 in-lb

## Environnement

Température de l'air ambiant	Operation -25 ... +60 °C Operation Compensated -25 ... +60 °C Storage -50 ... +80 °C
Ambient Air Temperature Compensation	Oui
Altitude de fonctionnement maximale autorisée	2000 m
REACH Declaration	1SAA963005-4502
Résistance aux chocs selon CEI 60068-2-27	11 ms Pulse 25g
Resistance to Vibrations acc. to IEC 60068-2-6	mounted on DIN-rail: 4g / 3 ... 150 Hz mounted on mounting plate: 5g / 3 ... 150 Hz 5g / 3 ... 150 Hz
Informations RoHS	1SAA963006-4502
Statut RoHS	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## Certificats et Déclarations (Numéro de document)

Certificat ABS	1SAA963002-0101
Certificat ATEX	1SAA918001-3901
Certificat BV	1SAA963002-0201
CB Certificate	1SAA918002-2002
CQC Certificate	CQC2015010307760141
Cut-off Current Characteristic	1SAM400507F0001
Declaration of Conformity - CCC	2020980307003042
Déclaration de Conformité - CE	1SAD101100-3408
Declaration of Conformity - UKCA	1SAD201100-3408
DNV GL Certificate	1SAA963002-0301
EAC Certificate	1SAA963000-2701
I <sup>t</sup> Characteristic	1SAM400506F0001
IECEX Certificate	1SAA918000-4001
KC Certificate	1SAA963001-1501
Certificat LR	1SAA918001-0501
Certificat RMRS	1SAA918000-0704
Certificat UL	E137861-20150206 E345003-20150206

## Emballage

Emballage Niveau 1	box 1 pièce
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Unités	
Emballage Niveau 1 Largeur	64 mm
Emballage Niveau 1 Longueur	177 mm
Emballage Niveau 1 Hauteur	140 mm
Emballage Niveau 1 Poids	1.1 kg
Emballage Niveau 1 EAN	4013614486081
Emballage Niveau 2 Unités	carton 12 pièce
Emballage Niveau 2 Largeur	330 mm
Emballage Niveau 2 Longueur	400 mm
Emballage Niveau 2 Hauteur	320 mm
Emballage Niveau 2 Poids	13 kg
Emballage Niveau 2 EAN	4013614503948

## Classifications

Code de classification d'objet	F
ETIM 5	EC000074 - Motor protective circuit-breaker
ETIM 6	EC000074 - disjoncteur/démarrreur de moteur
ETIM 7	EC000074 - Motor protection circuit-breaker
ETIM 8	EC000074 - Motor protection circuit-breaker
eClass	V11.0 : 27370401
UNSPSC	39121521
Code de catégorie granulaire IDEA (IGCC)	4731 >> Manual Starters
E-Number (Finland)	3707287
E-Number (Sweden)	3110054

## Accessories

Identifiant	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 Terminals and Installation Material	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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## Catégories

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Produits basse tension → Disjoncteurs de puissance → Disjoncteurs-moteurs

Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Disjoncteurs-moteurs → Disjoncteurs-moteurs

