

## Manual (Miniature) 25A Motor Starters

ITC is proud to introduce a new family of DIN-rail mounted 25A manual (Miniature) motor starters. Manual motor starters are a combination of a contactor and an overload relay, with enclosed coil: they are used mainly to switch motors manually ON/OFF, and protect them (without the need for fuses) against short circuit or loss of phase. Using a manual motor starter saves cost and space, while providing ultra-fast switching off under short circuit conditions.

These small devices are suitable for three-phase and single-phase operation, are available either with a rotary handle or with 2-button operation, both clearly indicating ON/OFF status. Rotary handle is lockable and a test button is present on both types.

NOARK Manual Motor Starters distributed by ITC are UL listed (E467185), built in accordance with IEC/EN 60947-2, UL60947-4-1A, are RoHS compliant and bear the CE-Mark.

### Features:

- On / off operation: Rotary handle or 2-button
- Three-phase and single-phase operation
- Lockable handle
- Approvals: UL (UL60947-4-1A); IEC/EN 60947-1

### Manual (Miniature) 25A Motor Starters (Order by Part No.)

Rotary Handle	2-Buttons	
Part No.	Part No.	Rated Current
Ex9SN25A0.16A	Ex9SN25B0.16A	0.10-0.16A
Ex9SN25A0.25A	Ex9SN25B0.25A	0.16A-0.25A
Ex9SN25A0.4A	Ex9SN25B0.4A	0.25A-0.4A
Ex9SN25A0.63A	Ex9SN25B0.63A	0.4A-0.63A
Ex9SN25A1A	Ex9SN25B1A	0.63A-1A
Ex9SN25A1.6A	Ex9SN25B1.6A	1A-1.6A
Ex9SN25A2.5A	Ex9SN25B2.5A	1.6A-2.5A
Ex9SN25A4A	Ex9SN25B4A	2.5A-4A
Ex9SN25A6.3A	Ex9SN25B6.3A	4A-6.3A
Ex9SN25A10A	Ex9SN25B10A	6A-10A
Ex9SN25A14A	Ex9SN25B14A	9A-14A
Ex9SN25A18A	Ex9SN25B18A	13A-18A
Ex9SN25A23A	Ex9SN25B23A	17A-23A
Ex9SN25A25A	Ex9SN25B25A	20A-25A

Information subject to change without notice

### Operating conditions

Ambient temperature, operation	-20 to 55°C (-4 to 131°F)
Ambient temperature, testing	-5 to 40°C (-4°F to 104°F)
Air humidity	Not to exceed 50% at +40°C (104°F)
Pollution grade	Class III
Release grade	10A (SN25)
Rated operation frequency	50/60Hz
Mounting conditions	Install in location without vibrations, angle between vertical and mounting plane <5°.
Rated insulation voltage Ui	600V (UL/CSA) - 690V (IEC)
Rated operational voltage	230/340VAC, 400/415VAC, 440VAC, 690VAC
Rated Impulse Withstand voltage Uimp	8 kV
Interrupting capacity Icu	5 kA rms
Service life, electrical	2000
Service life, mechanical	10000
Ingress protection	IP20
Tightening Torque	1.7Nm (15 lb/in) Philips screws M4
Wire size	Solid wire 1 - 4 mm <sup>2</sup> (19-12 AWG), stranded wire 1.5 - 6 mm <sup>2</sup> (16 - 10 AWG)

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Available accessories include: auxiliary contacts (side or front mount), shunt release modules, undervoltage release modules, fault signaling contacts.

## Accessories (Order by Part No.)

Part No.	Description
EX9ASNA11	Auxiliary contact for manual starter, left side mount, 1NO+1NC contacts
EX9ASNA20	Auxiliary contact for manual starter, left side mount, 2NO contacts
EX9ASNB11	Auxiliary contact for manual starter, front mount, 1NO+1NC contacts
EX9ASNB20	Auxiliary contact for manual starter, front mount, 2NO contacts
EX9ASNEA	Enclosure for manual starter, with actuating diaphragm
EX9ASNEB	Enclosure for manual starter, with E-stop pushbutton
EX9ASNF0101	Fault signal contact/auxiliary contact for man. starter, 1NC(fault)+1NC(aux.) (left side only)
EX9ASNF0110	Fault signal contact/auxiliary contact for man. starter, 1NC(fault)+1NO(aux.) (left side only)
EX9ASNF1001	Fault signal contact/auxiliary contact for man. starter, 1NO(fault)+1NC(aux.) (left side only)
EX9ASNF1010	Fault signal contact/auxiliary contact for man. starter, 1NO(fault)+1NO(aux.) (left side only)
EX9ASNTA	Shunt trip release module for man. starter, right side mount, 127V60Hz
EX9ASNTB	Shunt trip release module for man. starter, right side mount, 220-240V 60Hz
EX9ASNTC	Shunt trip release module for man. starter, right side mount, 440V 60Hz
EX9ASNUVA	Undervoltage release module for man. starter, right side mount, 127V60Hz
EX9ASNUVB	Undervoltage release module for man. starter, right side mount, 220-240V 60Hz
EX9ASNUVC	Undervoltage release module for man. starter, right side mount, 440V 60Hz

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## Electrical Characteristics

	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 ~ 10	9 ~ 14	13 ~ 18	17 ~ 23	20 ~ 25
Rated Release Current (A)	0.16	0.25	0.4	0.63	1	1.6	2.5	4	6.3	10	14	18	23	25
UL Ratings (in HP)														
Single-phase 120VAC					-	-	-	1/8	1/4	1/2	3/4	1	1.5	2
Single-phase 240VAC					-	1/10	1/6	1/3	1/2	1.5	2	3		
Three-phase 240VAC					-	-	1/2	1	1.5	3		10	7.5	
Three-phase 480VAC					1/2	3/4	1	2	3	5	10		15	
Three-phase 600VAC							1.5	3	5	7.5		15	20	

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## Dimensional Drawings

