SAFETY INSTRUCTIONS

8	Read carefully and completely before installing, operating, or maintaining the equipment this manual. Legend: H01R(B) means H01R or/and H01B. For other application terms in this instruction sheet, this is equivalent.			
	DANGER			
	Hazardous Voltage! Danger of life or serious injury!			
	Any work on electrical equipment may only be performed by qualified electricians in accordance with the National or local codes.			
	Before starting work: Disconnect power mains Prevent reconnection with OSHA lockout/tagout procedures! Test for absence of harmful voltages! Ground and short circuits! Cover or close of nearby live parts! Reliable functioning of the equipment is only guaranteed with approved MERZ Schaltgeräte GMBH + CO KG components!			
Stora	age and transport			
	 Dry and dust free Storage temperatures min./max.: -25°C/+50°C [-77°F/+122°F] During transport secure against shock and/or falling 			
Insta	Ilation and commissioning			
	 Confirm rating of device is sized properly for application Do not use damaged units in application The device specifications must be complied with Laws regulations guidelines and standards that apply in the country of operation must be followed 			

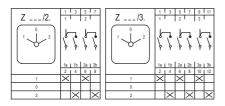
Specifications acc. UL and CSA

Туре		251	451	656
GENERAL PURPOSE 600 Vac, 3-ph	A	25	32	80
Motor 3-ph 110/120 V 220/240 V 440/480 V 550/600 V	hp hp hp hp	3 7.5 15 20	7.5 7.5 20 20	- 25 50 50
Motor 1-ph 2-pole 110/120 V 220/240 V 440/480 V 550/600 V	hp hp hp hp	1.5 3 7.5 10	- 3 10 15	7.5 15 15 15
Max. surrounding air temperature (open type)	°C [°F]	40 [104]	40 [104]	40 [104]

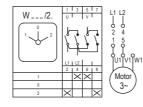
Suitable for use on a circuit capable of delivering not more than 5 kA rms symmetrical amperes, 600 Volts maximum.

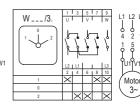
Contact diagrams

Change-over switches



Reversing switches





L3

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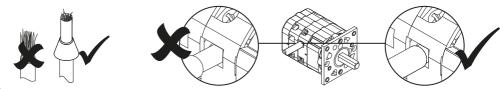
Connection

Use Copper (CU) wire only, 75°C or higher.

Verify that all connections (including bridging link connections) are tightened to the a manufacturer's required torque before energization.

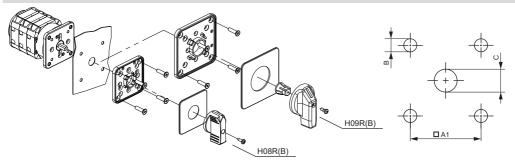
Туре		251	451	656
Terminal cross section	AWG	14 - 8	14 - 6	14 - 4
Single or multi-core	mm ²	1 - 6	1.5 - 10	1.5 - 25
Finely stranded with sleeve	mm ²	1 - 4	1.5 - 6	1.5 - 16
Stripping distance connector cable	mm [in]	10 [0.39]	12 [0.47]	15 [0.59]
Torque terminal screw	Nm [in-lb]	4.5 [40]	5.1 [45]	4.5 [40]
Screw driver terminal screws		PZ2/PH2	PZ2/PH2	PZ2/PH2

Note: Pozi Drive set can be ordered at automation direct.com Part number: 05057460055 and 05073220055 (WERA).



Ensure there are no loose stray wire strands.

4-hole mounting



Application	A1 mm [in]	B mm [in]	C mm [in]	Screw driver mounting screw	Torque Nm [ft.lb]	Screw driver handle screw	Torque Nm [ft.lb]
H08R(B)	48 [1.89]	5.2 [13/64]	12 [15/32]	PZ2/PH2	1.2 [0.89]	PZ2/PH2	1.2 [0.89]
H09R(B)	68 [2.68]	5.2 [13/64]	15 [19/32]	PZ2/PH2	1.2 [0.89]	PZ2/PH2	1.0 [0.74]

Note: Pozi Drive set can be ordered at automation direct.com. Part number: 05057460055 and 05073220055 (WERA).

Replacement screw sets

ML-SKT-4: includes all necessary screws for H08R(B), H09R(B)

Subject to change without notice. Store for use at a later date.

For more information please contact: www.automationdirect.com

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