



**Montageanweisung**  
**Operating Instructions**  
**Instrucciones de Montaje**  
**Instructions de Montage**  
**Instruzioni d'impiego**

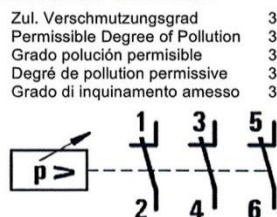
## MDR 3

**Druckschalter / Pressure switch**

**Max. zul. Motorleistung / Max. Motor Performance / Max. Potenza Admisibile del motor / Puissance max. du moteur / Pot. max. ammissibile dei motori**

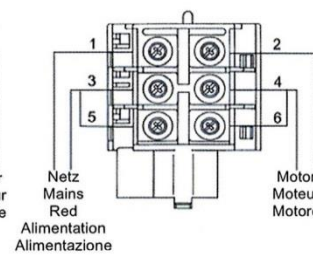
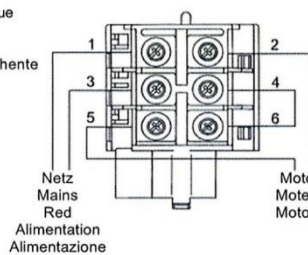
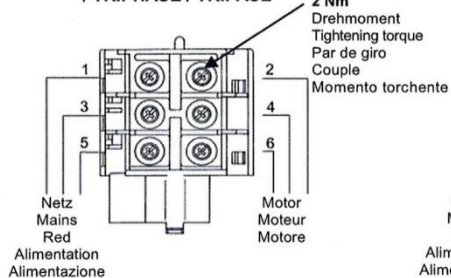
U <sub>e</sub> ( 50 / 60 Hz)	3 ( AC-3 )	1 ( AC-3 )
120V	3,0 kW	1,1 kW
230 V	5,5 kW	2,2 kW
400 V	7,5 kW ( 11 kW )*	-
500 V	7,5 kW ( 11 kW )*	-
690 V	7,5 kW ( 15 kW )*	-

\*= mit SK 3 H, SK-R3 H - with SK 3 H, SK-R3 H - con SK 3 H, SK-R3 H avec SK 3 H, SK-R3 H - con SK 3 H, SK-R3 H



Zul. Verschmutzungsgrad 3  
 Permissible Degree of Pollution 3  
 Grado polución permisible 3  
 Degré de pollution permisible 3  
 Grado di inquinamento amesso 3

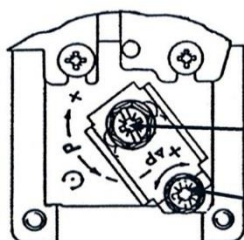
**SCHALTBILD / WIRING DIAGRAM / ESQUEMA DE CONEXION / SCHEMA DE RACCORDAMENTO / SCHEMA ELETTRICO**  
**3-PHASIG / 3-PHASE / TRIFASICO / TRIPHASE / TRIFASE**      **1-PHASIG / 1-PHASE / MONOFASICO / MONOPHASE / MONOFASE**



SK-....

SK-R3/30/2

**ACHTUNG:** Vor der Druckeinstellung ist der Druckschalter freizuschalten. Die Druckeinstellung ist nur am montiertem Druckschalter bei unter Druck stehendem Gerät möglich.  
**ATTENTION:** Adjustments are to be carried out only when the switch is mounted, under pressure and voltage-free.  
**ATENCION:** Cambios de presión deberán ser efectuados solo con el presóstato montado, bajo presión y libre de tensión.  
**ATTENTION:** Le réglage de pression ne peut se faire que lorsque l'appareil est monté, sous pression et libre de tension.  
**ATTENZIONE:** La regolazione va effettuata solo col pressostato montato, sotto pressione e disinserito.



**Druckeinstellung / Pressure setting / Ajuste de presión / Réglage de la pression / Regolazione della pressione**

Oberer Druckwert / Upper Pressure Setting / Presion de Disparo Superior / Pression Supérieure / Pression di Distacco

Druckdifferenz / Pressure Differential / Diferencial de Presión / Différentiel de Pression / Differenziale di Pressione

Einbau und Anschluß nur durch Fachkraft; nach Anbringung von Zubehör Funktionsüberprüfung durch Elektrofachkraft erforderlich.

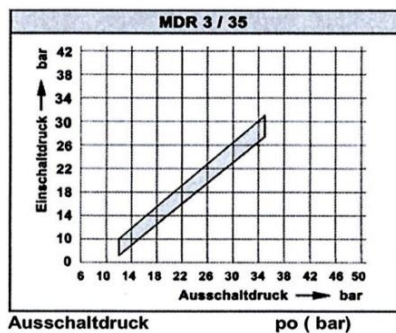
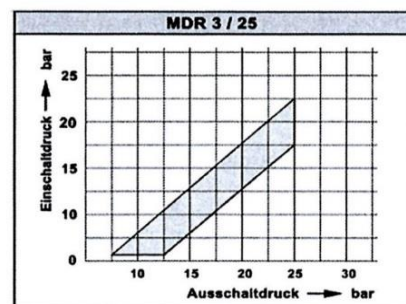
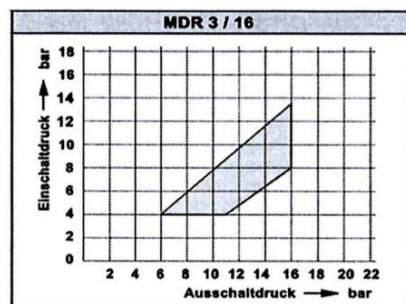
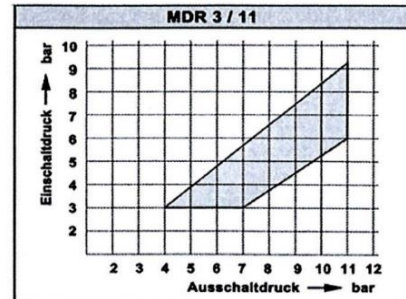
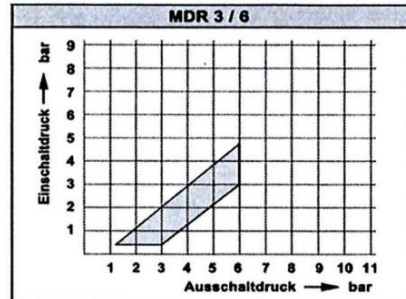
Installation and assembly of electrical equipment shall be carried out by qualified personnel only.

Instalación y ensamblaje de equipos eléctricos deberán ser efectuados solamente por personal cualificado.

L'installation et raccordement des appareils doit être effectué par du personnel qualifié.

L'installazione e l'assemblaggio delle parti elettriche vanno eseguite esclusivamente da personale qualificato.

**DRUCKDIAGRAMME / PRESSURE DIAGRAMS / DIAGRAMAS DE REGULACION /  
DIAGRAMMES DE REGLAGE / DIAGRAMMI TARATURE**

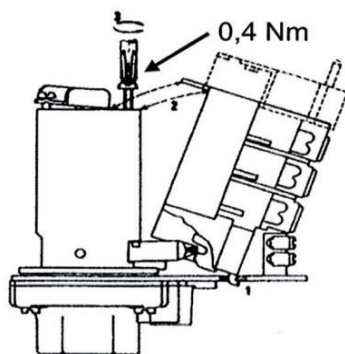


Einschaltdruck  
Cut-in pressure  
Presión de disparo inferior  
Pression de d'enclenchement  
Pressione di attacco

\*MDR 3 EA in Position / I Auto  
MDR 3 EA in position / I Auto  
MDR 3 EA en posición / I Auto  
MDR 3 EA dans position / I Auto  
MDR 3 EA in posizione / I Auto

Ausschaltdruck  
Cut-out pressure  
Presión de disparo superior  
Pression déclenchement  
Pressione di distacco

**ANBAU DER MODULE / MOUNTING ADD-ON MODULES / MONTAJE DE LOS MODULES /  
MONTAGE DES MODULES / MONTAGGIO DEI MODULI**



1. - Nase wie im Piktogramm schräg einsetzen
2. - Modul nach hinten kippen
3. - Befestigungsschrauben festdrehen

Wechsel bereits montierter Module:  
in umgekehrter Reihenfolge verfahren

1. - Insertar el tetón como en la pictografía
2. - Presionar hacia atrás
3. - Apretar tornillos

Cambiar módulos ya montados: proceder al inverso

1. - Inserire obliquamente il beccuccio come da schema illustrativo
2. - Raddrizzare il modulo
3. - Serrare le viti di fissaggio

Sostituzione moduli: procedere in senso inverso

Haubenbefestigung / Cover fastening / Fijación de la tapa / Fixation par coiffe / Fissaggio coperchio: 1 Nm /

Anbau der Module / Add-on Modules / Módulos Montables / Modules complémentaires / I Moduli: s. Katalog / see catalogue / ver catálogo / voyez notre catalogue / vedere catalogo

1. - Insert catch as shown
2. - Push the module backwards
3. - Tighten screws

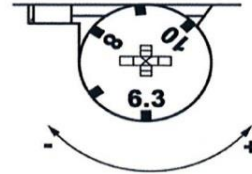
Changing matented modules: proceed in reverse

1. - Insérer le tetón en oblique
2. - Pousser le module vers l'arrière
3. - Serrer les vis de fixation

Pour remplacer un module: fait l'opération inverse

**Kurzschlußschutzeinrichtung für MDR 3 / Protection against short-circuit for MDR 3 / Protección contra corto circuito para MDR 3 / Protection contre court-circuit pour MDR 3 / Protezione contro corto circuito per MDR 3 Iq ≤ 50kA**

Type / Tipo	Koordination Type "1"		Koordination Type "2"	
	Co-ordination Type "1"		Co-ordination Type "2"	
	Coordinación Tipo "1"		Coordinación Tipo "2"	
	Coordination Type "1"		Coordination Type "2"	
	Coordinamento Tipo "1"		Coordinamento Tipo "2"	
Überstromrelais	max. Sich. gl	oder	LS-Schalter (400 V)	
Overload relais	max. Fusible (slow)	or	McB (400 V)	
Relé térmico	max. Fusible (retardado)	o	Automatico (400 V)	
Relais disjoncteur	max. Fusible (retardé)	ou	Disjoncteur Automatiques (400 V)	
Relé termico	max. Fusible (ritardato)	o	Interruttore modulare (400 V)	
	<b>400 V</b>	<b>690 V</b>	<b>400 V</b>	<b>690 V</b>
SK-R3/1,0	80 A	63 A	6 A	4 A
SK-R3/1,6	80 A	63 A	10 A	6 A
SK-R3/2,5	80 A	63 A	20 A	10 A
SK-R3/4,0	80 A	63 A	35 A	20 A
SK-R3 (H)6.3 . 24	80 A	63 A	35 A	35 A
SK-R3 (H)/SK-R3(H-S)	80 A	63 A	35 A	35 A



Motorenstrom am Excenter des SK-R3 Überstromrelais wie abgebildet einstellen.

Use dial to adjust the overload relay SK-R3 to the rated motor current as shown

Usar la excéntrica para ajustar el relé térmico SK-R3 a la corriente nominal del motor como en la pictografía

Déplacer l'excentrique du thermique SK-R3 a la valeur du courant nominal du moteur comme indiqué

Torare la corrente nominale del motore sul relais termico SK-R3 agendo sull'eccentrico come indicato



Horsepower Ratings und Short Cimuit Proteeejan acc. to UL 508										
Conrad Block	110 - 120 V		220 - 240 V		440 - 480 V		550 - 600 V		Short Circuit Protection	
Type	1-ph	3-ph	1-ph	3-ph	1-ph	3-ph	1-ph	3-ph	max. V	max. Fuse
SK-R3/1	-	-	-	-	-	½	-	½	600	15 A
SK-R3/1,6	-	-	1/10	¼	-	¾	-	1	600	15 A
SK-R3/2	-	-	1/6	½	½	1	½	1½	600	15 A
SK-R3/4	¼	½	¾	1	1	2	1½	3	600	15 A
SK-R3/6,3	½	¾	1½	2	3	2	5	600	25 A	
SK-R3/10	½	1	1½	3	3	5	3	7½	600	40 A
SK-R3/16	1	2	2	5	5	10	7½	10	600	60 A
SK-R3/20	1½	3	3	-	-	-	10	-	600	80 A
SK-R3/24	2	-	-	7½	7½	-	10	-	600	100 A
SK-R3H16	1	2	2	5	5	10	7½	10	600	60 A
SK-R3H/20	1½	3	3	-	-	-	10	15	600	80 A
SK-R3H/24	2	-	-	7½	7½	-	15	20	600	100 A
SK-R3/30/2	2	-	5	-	-	-	-	-	240	110 A

Max. Operating pressure	
MDR 3 / 6	90 psi / 600 kPa
MDR 3 / 11	160 psi / 11100 kPa
MDR 3 / 16	230 psi / 1600 kPa
MDR 3 / 25	360 psi / 12500 kPa
MDR 3 / 35	510 psi / 3500 kPa

\* see pressure diagrams

- Suitable for use in a circuit capable of delivering not more than 5 kA rms symmetrical Amperes, 600 Volts maximum ( 240 Volts for SK-R3/30/2 ) when protected by nontime delay fuses as noted in the table above.
- Suitable for group fusing of 5 kA rms symmetrical Amperes 600 V, 3-ph maximum ( SK-R3/30/2 240V. 1-ph max. ) when protected by time delay fuses rated max. 100 A.
- Use 75° copper wire AWG 10 -AWG 14
- AC Motor Load
- Break all lines
- Trip current is 125% of dial setting

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Applies to the following articles:

### Pressure switch for compressors

Article No.	Type No.
103044 to 103045	MDR 3/11 to MDR 3/16

### Pressure switch for compressors

Article No.	Type No.
103046 to 103050	MDR 3/11-16 to MDR 3/16-10