### Technical specifications

Contactor	Type Size		3RT12 64 S10	3RT12 65 S10	3RT12 66 S10			
General data								
Permissible mounting position The contactors are designed for ope	ration on a vertical mounting surface.		22,5°, 22,5° 22,5° 22,5° 000 					
Mechanical endurance		Oper- ating cycles	10 million					
Electrical endurance			1)					
Rated insulation voltage Ui (degree	e of pollution 3)	V	1000					
Rated impulse withstand voltage L	limp	kV	8	8				
Safe isolation between the coil and acc. to EN 60947-1, Appendix N	the main contacts	V	690					
Mirror contacts A mirror contact is an auxiliary NC co simultaneously with a NO main conta	ontact that cannot be closed		Yes, acc. to EN 60947-4	I-1, Appendix F				
Permissible ambient temperature	During operation During storage	°C °C	-25 +60/+55 with AS- -55 +80	Interface				
Degree of protection acc. to EN 609 Touch protection acc. to EN 50274	947-1, Appendix C		IP00/open, coil assembly IP20 Finger-safe with cover					
Shock resistance	Rectangular pulse Sine pulse	<i>g</i> /ms <i>g</i> /ms	8.5/5 and 4.2/10 13.4/5 and 6.5/10					
Conductor cross-sections			2)					
Electromagnetic compatibility (EM	C)		3)					
Short-circuit protection								
Main circuit Fuse links, gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED	9 5SE							
- Acc. to IEC 60947-4-1/ EN 60947-4-1	<ul> <li>Type of coordination "1"</li> <li>Type of coordination "2"</li> <li>Weld-free<sup>4)</sup></li> </ul>	A A A	500 500 400					
Auxiliary circuit								
• Fuse links gL/gG A DIAZED 5SB, NEOZED 5SE (weld-free protection for $I_k \ge 1$ kA)		A	10					
Or miniature circuit breakers with C characteristic (short-circuit current $I_{\rm K}$ 400 A)								
1) For endurance of the main contact	s see page 3/19.							
<sup>2)</sup> For conductor cross-sections see	bage 3/59.							
3) For electromagnetic compatibility (	For electromagnetic compatibility (EMC) see page 3/12.							

<sup>4)</sup> Test conditions according to IEC 60947-4-1.

# **3RT, 3TB, 3TF Contactors for Switching Motors**

## 3RT12 vacuum contactors, 3-pole, 110 ... 250 kW

Contactor	Type Size		3RT12 64 S10	3RT12 65 S10	3RT12 66 S10		
Control							
Operating range of the solenoid A	C/DC (UC)		0.8 x <i>U</i> s min 1.1 x <i>U</i> s	3RT12 65 S10			
Power consumption of the soleno (when coil is cool and rated range L	<b>id</b> J <sub>s min</sub> U <sub>s max</sub> )						
Conventional operating mechanism	n						
- AC operation	Closing at $U_{\rm smin}$ Closing at $U_{\rm smax}$ Closed at $U_{\rm smin}$ Closed at $U_{\rm smax}$	VA/p.f. VA/p.f. VA/p.f. VA/p.f.	530/0.9 630/0.9 6.1/0.9 7.4/0.9				
- DC operation	Closing at $U_{\rm smin}$ Closing at $U_{\rm smax}$ Closed at $U_{\rm smin}$ Closed at $U_{\rm smax}$	W W W W	580 700 6.8 8.2				
Solid-state operating mechanism							
- AC operation	Closing at $U_{\rm smin}$ Closing at $U_{\rm smax}$ Closed at $U_{\rm smin}$ Closed at $U_{\rm smax}$	VA/p.f. VA/p.f. VA/p.f. VA/p.f.	420/0.8 570/0.8 4.3/0.8 5.6/0.8				
- DC operation	Closing at $U_{\rm smin}$ Closing at $U_{\rm smax}$ Closed at $U_{\rm smin}$ Closed at $U_{\rm smax}$	W W W W	460 630 3.4 4.2				
PLC control input (EN 61131-2/type	e 2)		24 V DC/≤ 30 mA powe	24 V DC/≤ 30 mA power consumption, (operating range 17 30 V DC)			
Operating times (Total break time =	Opening delay + Arcing time)						
Conventional operating mechanism	n						
- with 0.8 x U <sub>s min</sub> 1.1 x U <sub>s max</sub>	Closing delay Opening delay	ms ms	30 95 40 80				
- for U <sub>s min</sub> U <sub>s max</sub>	Closing delay Opening delay	ms ms	35 50 50 80				
Solid-state operating mechanism,	actuated via A1/A2						
- with 0.8 x U <sub>s min</sub> 1.1 x U <sub>s max</sub>	Closing delay Opening delay	ms ms	105 145 80 100				
- for U <sub>s min</sub> U <sub>s max</sub>	Closing delay Opening delay	ms ms	110 130 80 100				
<ul> <li>Solid-state operating mechanism, actuated via PLC input</li> </ul>							
- with 0.8 x $U_{\rm smin}$ 1.1 x $U_{\rm smax}$	Closing delay Opening delay	ms ms	45 80 80 100				
- for U <sub>s min</sub> U <sub>s max</sub>	Closing delay Opening delay	ms ms	50 65 80 100				
<ul> <li>Arcing time</li> </ul>		ms	10 15				

Contactor	Type Size	3RT12 64 S10	3RT12 65 S10	3RT12 66 S10
Main circuit				
AC capacity				
Utilization category AC-1				
Bated operational currents $I_{c}$	at 40 °C up to 1000 V A	330		
	at 60 °C up to 1000 V A	300		
Rated power for AC loads <sup>1)</sup> Pf = 0.95 (at 60 °C)	at 230 V kW	113		
1.1. = 0.33 (at 00° C)	500 V kW	246		
	690 V kW 1000 V kW	340 492		
Minimum conductor cross-section for	at 40 °C mm <sup>2</sup>	185		
Utilization category AC-2 and AC-3		165		
Rated operational currents $I_{e}$	up to 1000 V A	225	265	300
Rated power for slipring	at 230 V kW	73	85	97
or squirrel-cage motors at 50 and 60 H	z 400 V kW	128	151	171
	690 V kW	223	265	288
	1000 V kW	320	378	428
Thermal load capacity	10 s current <sup>2</sup> / A	1800	2120	2400
Power loss per conducting path Itilization category $AC_{-}A$ (for $L_{-}C_{-}X$ )	$at I_{e}/AC-3 W$	9	12	14
Bated operational current $I$	up to 690 V/A	195	230	280
Rated power for squirrel-cage motors	at 400 V kW	110	132	160
with 50 Hz and 60 Hz				
The following applies to a contact en	durance of about 200000 operating cycles:			
Rated operational currents Ie	up to 690 V A 1000 V A	97 68	115 81	140 98
Rated power for squirrel-cage motors	at 230 V kW	30	37	45
with 50 Hz and 60 Hz	400 V kW	55	65	79
	500 V KW 690 V KW	68 94	81 112	98 138
	1000 V kW	95	114	140
Utilization category AC-6a Switching AC transformers				
Rated operational current Ie				
<ul> <li>For inrush current n = 20</li> <li>For inrush current n = 30</li> </ul>	up to 690 V A up to 690 V A	278 185		
Rating P				
• For inrush current $n = 20$	at 230 V kVA	111		
	400 V kVA 500 V kVA	193 241		
	690 V kVA	332		
- Fan innucle aumant a 20	1000 V kVA	482		
• For Infusit current fi = 30	400 V KVA	128		
	500 V kVA	160		
	1000 V KVA	320		
For deviating inrush current factors x, the power must be recalculated as follo	OWS:			
$P_{\rm x} = P_{\rm n \ 30} \cdot 30/{\rm x}$				
Utilization category AC-6b Switching low-inductance (low-loss,	metallized dielectric) AC capacitors			
Ambient temperature 40 °C	up to 500 V/A	220		
Rated power for single capacitors or	at 230 V kvar	88		
banks of capacitors (minimum induc-	400 V kvar	152		
nected in parallel) at 50 Hz, 60 Hz and	- 500 V kvar 690 V kvar	191 152		
Switching frequency				
Switching frequency z in operating cy	/cles/hour			
Contactors without overload relays	No-load switching frequency h <sup>-1</sup>	2000	2000	
Dependence of the switching frequency	y AC-1 $h^{-1}$	800	750	
ational voltage $U$ :	AC-2 n <sup>-1</sup>	750	750	
$Z' = Z \cdot (I_{e}/I') \cdot (400 \text{ V}/U')^{1.5} \cdot 1/h$	AC-4 h <sup>-1</sup>	250	250	
Contactors with overload relays (mean	value) h <sup>-1</sup>	60	60	
<sup>1)</sup> Industrial furnaces and electric heate increased power consumption on he	ers with resistance heating, etc. 2) eating up taken into account).	According to IEC 609 For rated values for v	947-4-1. /arious start-up condit	ions see Protection Equipment:

For rated values for various start-up conditions see Protection Equipment: Overload Relays.

Contactor	Type Size		3RT12 6. S10
Main conductor cross-sections	;		
Screw terminals	Main conductors: With 3RT19 66-4G box terminal		Screw terminals
Front clamping point connected	<ul> <li>Finely stranded with end sleeve</li> <li>Finely stranded without end sleeve</li> <li>Stranded</li> <li>AWG cables, solid or stranded</li> <li>Ribbon cable conductors (number x width x thickness)</li> </ul>	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> AWG mm	70240 70240 95300 3/0 600 kcmil Min. 6 x 9 x 0.8, max. 20 x 24 x 0.5
Rear clamping point connected	<ul> <li>Finely stranded with end sleeve</li> <li>Finely stranded without end sleeve</li> <li>Stranded</li> <li>AWG cables, solid or stranded</li> <li>Ribbon cable conductors (number x width x thickness)</li> </ul>	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> AWG mm	120 185 120 185 120240 250500 kcmil Min. 6 x 9 x 0.8, max. 20 x 24 x 0.5
Both clamping points connected	<ul> <li>Finely stranded with end sleeve</li> <li>Finely stranded without end sleeve</li> <li>Stranded</li> <li>AWG cables, solid or stranded</li> <li>Ribbon cable conductors (number x width x thickness)</li> <li>Terminal screws</li> </ul>	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> AWG mm	Min. 2 x 50, max. 2 x 185 Min. 2 x 50, max. 2 x 185 Min. 2 x 70, max. 2 x 240 Min. 2 x 1/0, max. 2 x 500 kcmil Max. 2 x (20 x 24 x 0.5) M12 (beyagon socket, A/E 5)
	- tightening torque	Nm	20 22 (180 195 lb.in)
	Main conductors:         without box terminal/         busbar connection         • Finely stranded with cable lug <sup>1</sup> )         • Stranded with cable lug <sup>1</sup> )         • AWG cables, solid or stranded         • Connecting bar (max. width)	mm² mm² AWG mm	50240 70240 2/0500 kcmil 25
	Terminal screws     tightening torque	Nm	M12 (hexagon socket, A/F 5) 14 24 (124 210 lb.in)
Screw terminals	Auxiliary conductors:		
	<ul> <li>Solid</li> <li>Finely stranded with end sleeve</li> <li>AWG cables, solid or stranded</li> </ul>	mm² mm² AWG	2 x (0.5 1.5) <sup>2)</sup> ; 2 x (0.75 2.5) <sup>2)</sup> acc. to IEC 60947; max. 2 x (0.75 4) 2 x (0.5 1.5) <sup>2)</sup> ; 2 x (0.75 2.5) <sup>2)</sup> 2 x (18 14)
0	Terminal screws     tightening torque	Nm	M3 (PZ 2) 0.8 1.2 (7 10.3 lb.in)

- <sup>1)</sup> When connecting cable lugs according to DIN 46234 for conductor crosssections of 185 mm<sup>2</sup> and more and according to DIN 46235 for conductor cross-sections of 240 mm<sup>2</sup> and more, the 3RT19 66-4EA1 terminal cover must be used to keep the phase clearance.
- <sup>2)</sup> If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in the range specified. If identical crosssections are used, this restriction does not apply.

# **3RT, 3TB, 3TF Contactors for Switching Motors**

### 3RT12 vacuum contactors, 3-pole, 110 ... 250 kW

Contactor	Type Size		3RT12 75 S12	3RT12 76 S12			
General data							
Permissible mounting position The contactors are designed for operation on a vertical mounting surface.			22.5° +22.5° +22.5° + 22.5° +				
Mechanical endurance		Operat- ing cycles	10 million				
Electrical endurance			1)				
Rated insulation voltage $\textbf{\textit{U}}_{i}$ (degree	e of pollution 3)	V	1000				
Rated impulse withstand voltage &	<b>J</b> <sub>imp</sub>	kV	8				
Safe isolation between the coil and acc. to EN 60947-1, Appendix N	the main contacts	V	690				
Mirror contacts A mirror contact is an auxiliary NC co that cannot be closed simultaneousl	ontact y with a NO main contact.		Yes, acc. to EN 60947-4-1, Append	ix F			
Permissible ambient temperature	During operation During storage	°C °C	-25 +60/+55 with AS-Interface -55 +80				
Degree of protection acc. to EN 60 Touch protection acc. to EN 50274	947-1, Appendix C		IP00/open, coil assembly IP20 Finger-safe with cover				
Shock resistance	Rectangular pulse Sine pulse	<i>g</i> /ms <i>g</i> /ms	8.5/5 and 4.2/10 13.4/5 and 6.5/10				
Conductor cross-sections			2)				
Electromagnetic compatibility (EM	IC)		3)				
Short-circuit protection							
Main circuit Fuse links, gL/gG LV HRC 3NA, DIAZED 5SB, NEOZEL	0 5SE						
- acc. to IEC 60947-4-1/ EN 60947-4	<ul> <li>Type of coordination "1"</li> <li>Type of coordination "2"</li> <li>Weld-free<sup>4)</sup></li> </ul>	A A A	800 800 500				
Auxiliary circuit							
• Fuse links gL/gG DIAZED 5SB, NEOZED 5SE (weld-free protection for $I_k \ge 1$ kA)		A	10				
or miniature circuit breakers with C characteristic (short-circuit current $I_{\rm k}$ < 400 A)							
<sup>1)</sup> See endurance of the main contact	ets on page 3/19.						
2) See conductor group continue on r	2/62						

See conductor cross-sections on page 3/63.

 $^{\rm 3)}$  See Electromagnetic Compatibility (EMC) on page 3/12.

<sup>4)</sup> Test conditions according to IEC 60947-4-1.

## **3RT, 3TB, 3TF Contactors for Switching Motors**

#### 3RT12 vacuum contactors, 3-pole, 110 ... 250 kW

Contactor	Type Size		3RT12 75 S12	3RT12 76 S12
Control				
Operating range of the solenoid	AC/DC (UC)		0.8 x U <sub>s min</sub> 1.1 x U <sub>s max</sub>	
Power consumption of the solenoid (when coil is cool and rated range $U_{\rm S}$ r	<sub>nin</sub> U <sub>s max</sub> )			
<ul> <li>Conventional operating mechanism</li> </ul>				
- AC operation	Closing at $U_{\rm s\ min}$ Closing at $U_{\rm s\ max}$ Closed at $U_{\rm s\ min}$ Closed at $U_{\rm s\ max}$	VA/p.f. VA/p.f. VA/p.f. VA/p.f.	700/0.9 830/0.9 7.6/0.9 9.2/0.9	
- DC operation	Closing at $U_{\rm smin}$ Closing at $U_{\rm smax}$ Closed at $U_{\rm smin}$ Closed at $U_{\rm smax}$	W W W W	770 920 8.5 10	
<ul> <li>Solid-state operating mechanism</li> </ul>				
- AC operation	Closing at $U_{\rm s\ min}$ Closing at $U_{\rm s\ max}$ Closed at $U_{\rm s\ min}$ Closed at $U_{\rm s\ max}$	VA/p.f. VA/p.f. VA/p.f. VA/p.f.	560/0.8 750/0.8 5.4/0.8 7/0.8	
- DC operation	Closing at $U_{\rm s\ min}$ Closing at $U_{\rm s\ max}$ Closed at $U_{\rm s\ min}$ Closed at $U_{\rm s\ max}$	W W W W	600 800 4 5	
PLC control input (EN 61131-2/type 2	2)		24 V DC/≤ 30 mA power consumpti	on, (operating range 17 30 V DC)
<b>Operating times</b> (Total break time = Opening delay + A	rcing time)			
Conventional operating mechanism				
- with 0.8 x $U_{\rm smin}$ 1.1 x $U_{\rm smax}$	Closing delay Opening delay	ms ms	45 100 60 100	
- for U <sub>s min</sub> U <sub>s max</sub>	Closing delay Opening delay	ms ms	50 70 70 100	
<ul> <li>Solid-state operating mechanism, ac</li> </ul>	tuated via A1/A2			
- with 0.8 x U <sub>s min</sub> 1.1 x U <sub>s max</sub>	Closing delay Opening delay	ms ms	120 150 80 100	
- for U <sub>s min</sub> U <sub>s max</sub>	Closing delay Opening delay	ms ms	125 150 80 100	
<ul> <li>Solid-state operating mechanism, ac</li> </ul>	tuated via PLC input			
- with 0.8 x U <sub>s min</sub> 1.1 x U <sub>s max</sub>	Closing delay Opening delay	ms ms	60 90 80 100	
- for U <sub>s min</sub> U <sub>s max</sub>	Closing delay	ms ms	65 80 80 100	
Arcing time	opening delay	ms	10 15	
Main circuit				
AC capacity				
Utilization category AC-1 Switching resistive loads				
Rated operational currents Ie	at 40 °C up to 1000 V at 60 °C up to 1000 V	A A	610 550	
Rated power for AC loads <sup>1)</sup> P.f. = 0.95 (at 60 °C)	at 230 V 400 V 500 V 690 V 1000 V	kW kW kW kW kW	208 362 452 624 905	
Minimum conductor cross-section for loads with $I_{\rm e}$	At 40 °C At 60 °C	mm <sup>2</sup> mm <sup>2</sup>	2 x 185 2 x 185	
Utilization category AC-2 and AC-3				
Rated operational currents $I_{e}$	up to 1000 V	A	400	500
Rated power for slipring or squirrel- cage motors at 50 and 60 Hz	at 230 V 400 V 500 V 690 V 1000 V	kW kW kW kW kW	132 231 291 400 578	164 291 363 507 728
Thermal load capacity	10 s current <sup>2)</sup>	А	3200	4000
Power loss per conducting path	at I <sub>e</sub> /AC-3	W	21	32

<sup>1)</sup> Industrial furnaces and electric heaters with resistance heating, etc. increased power consumption on heating up taken into account).

<sup>2)</sup> According to IEC 60947-4-1. For rated values for various start-up conditions see Protection Equipment: Overload Relays.

Contactor	Type Size		3RT12 75 S12	3RT12 76 S12
Main circuit				
AC capacity			-	
<b>Utilization category AC-4</b> (for $I_a = 6 \times I_e$ )				
Rated operational current Ie	up to 690 V	А	350	430
Rated power for squirrel-cage motors with 50 Hz and 60 Hz $$	at 400 V	kW	200	250
The following applies to a contact endurance of	about 200000 operating	g cycles:		
Rated operational currents Ie	690 V 1000 V	A A	175 123	215 151
Rated power for squirrel-cage motors with 50 Hz and 60 Hz $$	at 230 V 400 V 500 V 690 V 1000 V	kW kW kW kW kW	56 98 124 172 183	70 122 153 212 217
Utilization category AC-6a Switching AC transformers				
Rated operational current Ie				
<ul> <li>For inrush current n = 20</li> <li>For inrush current n = 30</li> </ul>	up to 690 V up to 690 V	A A	419 279	
Rating P				
• For inrush current n = 20	at 230 V 400 V 500 V 690 V 1000 V	kVA kVA kVA kVA kVA	167 290 363 501 726	
• For inrush current n = 30	at 230 V 400 V 500 V 690 V 1000 V	kVA kVA kVA kVA kVA	111 193 241 332 482	
For deviating inrush current factors x, the power m follows: $P_{\rm X} = P_{\rm n \ 30} \cdot 30/{\rm x}$	iust de recalculated as			
Utilization category AC-6b Switching low-inductance (low-loss, metallized Ambient temperature 40 °C	I dielectric) AC capacite	ors		
Rated operational currents Ie	up to 500 V	А	407	
Rated power for single capacitors or banks of capacitors (minimum inductance of 6 $\mu$ H between capacitors connected in parallel) at 50 Hz, 60 Hz and	at 230 V 400 V 500 V 690 V	kvar kvar kvar kvar	162 282 352 282	
Switching frequency				
Switching frequency z in operating cycles/hour				
Contactors without overload relays	No-load switching frequency	h <sup>-1</sup>	2000	
Dependence of the switching frequency <i>z</i> ' on the operational current <i>I</i> ' and operational voltage <i>U</i> : $z' = z \cdot (I_{e}/I') \cdot (400 \text{ V}/U')^{1.5} \cdot 1/h$	AC-1 AC-2 AC-3 AC-4	h <sup>-1</sup> h <sup>-1</sup> h <sup>-1</sup> h <sup>-1</sup>	700 250 750 250	
Contactors with overload relays (mean value)		h <sup>-1</sup>	60	

Contactor	Type Size		3RT12 7. S12
Conductor cross-sections			
Screw terminals	Main conductors: With 3RT19 66-4G box terminal		Screw terminals
Front clamping point connected	<ul> <li>Finely stranded with end sleeve</li> <li>Finely stranded without end sleeve</li> <li>Stranded</li> <li>AWG cables, solid or stranded</li> <li>Ribbon cable conductors (number x width x thickness)</li> </ul>	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> AWG mm	70 240 70 240 95 300 3/0 600 kcmil Min. 6 x 9 x 0.8, max. 20 x 24 x 0.5
Rear clamping point connected	<ul> <li>Finely stranded with end sleeve</li> <li>Finely stranded without end sleeve</li> <li>Stranded</li> <li>AWG cables, solid or stranded</li> <li>Ribbon cable conductors (number x width x thickness)</li> </ul>	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> AWG mm	120 185 120 185 120 240 250 500 kcmil Min. 6 x 9 x 0.8, max. 20 x 24 x 0.5
Both clamping points connected	<ul> <li>Finely stranded with end sleeve</li> <li>Finely stranded without end sleeve</li> <li>Stranded</li> <li>AWG cables, solid or stranded</li> <li>Ribbon cable conductors (number x width x thickness)</li> </ul>	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> AWG mm	Min. 2 x 50, max. 2 x 185 Min. 2 x 50, max. 2 x 185 Min. 2 x 70, max. 2 x 240 Min. 2 x 2/0, max. 2 x 500 kcmil Max. 2 x (20 x 24 x 0.5)
	Terminal screws     tightening torque	Nm	M12 (hexagon socket, A/F 5) 20 22 (180 195 lb.in)
	Main conductors: without box terminal/busbar connecti	on	
	<ul> <li>Finely stranded with cable lug<sup>1)</sup></li> <li>Stranded with cable lug<sup>1)</sup></li> <li>AWG cables, solid or stranded</li> <li>Connecting bar (max. width)</li> </ul>	mm <sup>2</sup> mm <sup>2</sup> AWG mm	50 240 70 240 2/0 500 kcmil 25
	<ul> <li>Terminal screws</li> <li>tightening torque</li> </ul>	Nm	M10 x 30 (hexagon socket, A/F 17) 14 24 (124 240 lb.in)
Screw terminals	Auxiliary conductors:		
	<ul> <li>Solid</li> <li>Finely stranded with end sleeve</li> <li>AWG cables, solid or stranded</li> </ul>	mm² mm² AWG	2 x (0.5 1.5) <sup>2)</sup> ; 2 x (0.75 2.5) <sup>2)</sup> acc. to IEC 60947; max. 2 x (0.75 4) 2 x (0.5 1.5) <sup>2)</sup> ; 2 x (0.75 2.5) <sup>2)</sup> 2 x (18 14)
	<ul> <li>Terminal screws</li> <li>tightening torque</li> </ul>	Nm	M3 (PZ 2) 0.8 1.2 (7 10.3 lb.in)
<ol> <li>When connecting cable lugs to D cover must be used for conductor</li> </ol>	N 46234, the 3RT19 66-4EA1 terminal	<sup>2)</sup>	f two different conductor cross-sections are connected to one clamping

well as DIN 46235 for conductor cross-sections of 185 mm<sup>2</sup> and more as keep the phase clearance.

sections are used, this restriction does not apply.

Contactor	Type Size		3RT12 64 S10	3RT12 65 S10	3RT12 66 S10	3RT12 75 S12	3RT12 76 S12
CSA and UL rated data							
Rated insulation voltage		V AC	600			600	
Uninterrupted current, at 40 °C	Open and enclosed	А	330			540	
Maximum horsepower ratings (CSA and UL approved values)							
Rated power for induction motors at 60 Hz	at 200 V 230 V 460 V 575 V	hp hp hp hp	60 75 150 200	75 100 200 250	100 125 250 300	125 150 300 400	150 200 400 500
Short-circuit protection	CLASS L fuse Circuit breakers acc. to UL 489	kA A A	10 700 500	18 800 700	18 800 900	18 1200 1000	30 1200 1200
NEMA/EEMAC ratings	NEMA/EEMAC size	hp			5		6
Uninterrupted current	Open Enclosed	A A			300 270		600 540
Rated power for induction motors at 60 Hz	at 200 V 230 V 460 V 575 V	hp hp hp hp	  	  	75 100 200 200	  	150 200 400 400
Overload relays	Туре		3RB20 66			3RB20 66	