## SIEMENS

## Data sheet

## 3TC4417-0BF0



Contactor, Size 2, 2-pole, DC-3 and 5, 32 A Auxiliary contacts 22 (2 NO + 2 NC) 110V AC 50Hz/132V AC 60Hz AC operation

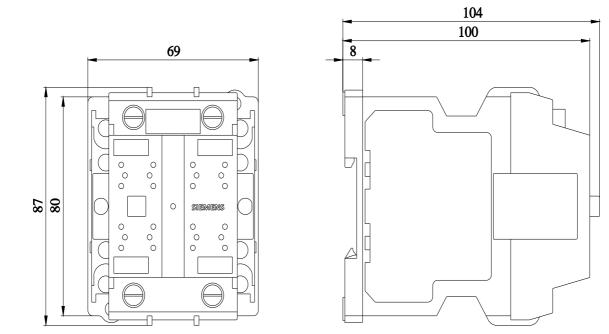
12			
product designation	Contactor		
product type designation	3TC		
General technical data			
size of contactor	2		
product extension			
<ul> <li>function module for communication</li> </ul>	No		
<ul> <li>auxiliary switch</li> </ul>	Yes		
insulation voltage rated value	800 V		
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	300 V		
shock resistance at rectangular impulse			
• at AC	7,5g / 5 ms, 3,4g / 10 ms		
mechanical service life (operating cycles)			
<ul> <li>of contactor typical</li> </ul>	10 000 000		
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	02/01/2012		
SVHC substance name	Blei - 7439-92-1 6,6'-Di-tert-butyl-2,2'-methylendi-p-cre - 119-47-1		
Ambient conditions			
ambient temperature			
during operation	-25 +55 °C		
during operation     during storage	-25 +55 °C -50 +80 °C		
during storage	-50 +80 °C		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30	-50 +80 °C 10 %		
during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum	-50 +80 °C 10 %		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	-50 +80 °C 10 % 95 %		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles	-50 +80 °C 10 % 95 % 2		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit	-50 +80 °C 10 % 95 % 2 2		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts	-50 +80 °C 10 % 95 % 2 2 2 2		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts	-50 +80 °C 10 % 95 % 2 2 2 2 0		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage	-50 +80 °C 10 % 95 % 2 2 2 2 0		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage operational current	-50 +80 °C 10 % 95 % 2 2 2 2 0		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage operational current     • at 1 current path at DC-1	-50 +80 °C 10 % 95 % 2 2 2 2 0 DC		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage operational current     • at 1 current path at DC-1     — at 24 V rated value	-50 +80 °C 10 % 95 % 2 2 2 2 0 0 DC		
during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage operational current         • at 1 current path at DC-1             — at 24 V rated value             — at 110 V rated value	-50 +80 °C 10 % 95 % 2 2 2 2 0 0 DC 32 A 32 A		
during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage operational current         • at 1 current path at DC-1             — at 24 V rated value             — at 110 V rated value             — at 220 V rated value	-50 +80 °C 10 % 95 % 2 2 2 2 0 0 DC 32 A 32 A		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage operational current     • at 1 current path at DC-1         — at 24 V rated value         — at 110 V rated value         — at 220 V rated value         • with 2 current paths in series at DC-1	-50 +80 °C 10 % 95 % 2 2 2 2 0 DC 32 A 32 A 32 A		

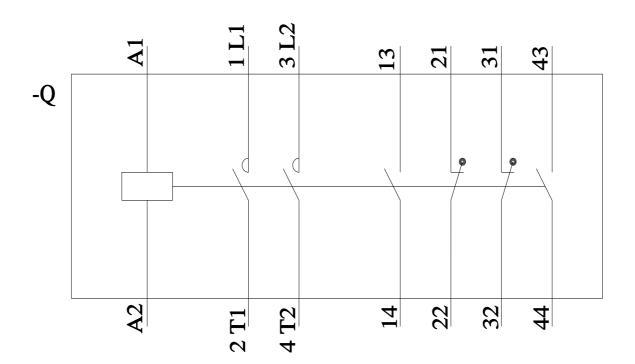
# 1400 V rates value         32 A           # 1700 V rates value         32 A           # 124 V rates value         32 A           # 122 V rates value         32 A           # 120 V rates value         32 A           # 110 V rates value         35 AW           # 120 V rates value         7 A           # 110 V rates value         35 AW           # 110 V rates value         35 AW		00.4
	— at 440 V rated value	32 A
<ul> <li>ait ourner path a DC-3 at DC-3</li> <li>ait 24 Y ratio value</li> <li>32 A</li> <li>ait 22 V ratio value</li> <li>32 A</li> <li>ait 22 V ratio value</li> <li>32 A</li> <li>ait 24 Y ratio value</li> <li>32 A</li> <li>ait 24 Y ratio value</li> <li>32 A</li> <li>ait 24 V ratio value</li> <li>32 A</li> <li>ait 20 V ratio value</li> <li>35 KW</li> <li>ait 20 V ratio value</li> <li>35 KW</li> <li>ait 20 V ratio value</li> <li>44 KV</li> <li>ait 20 V ratio value</li> <li>44 KV</li> <li>ait 20 V ratio value</li> <li>45 KW</li> <li>ait 20 V ratio value</li> <li>46 KV</li> <li>ait 20 V ratio value</li> <li>56 KW</li> <li>ait 20 V ratio value</li> <li>57 KW</li> <li>ait 20 V ratio value</li> <li>58 KW</li> <li>ait 20 V ratio value</li> <li>58 KW</li> <li>ait 20 V ratio value</li> <li>58 KW</li> <li>ait 20 V ratio value</li> <li>50 KW</li> <li>ait 20 V ratio value</li> <li>50 KW</li> <li>ait 20 V ratio value</li> <li>50 KW</li> <li>ait 30 K</li> <li>50 KW</li> <li>ait 30 K&lt;</li></ul>		
<ul> <li>af 24 V relat value</li> <li>26 A</li> <li>af 10 V relat value</li> <li>26 A</li> <li>af 22 V relat value</li> <li>27 A</li> <li>af 24 V relat value</li> <li>28 A</li> <li>af 11 V rate value</li> <li>28 A</li> <li>af 24 V relat value</li> <li>29 A</li> <li>af 24 V relat value</li> <li>29 A</li> <li>af 24 V relat value</li> <li>29 A</li> <li>af 20 V relat value</li> <li>28 A</li> <li>af 20 V relat value</li> <li>28 A</li> <li>af 20 V relat value</li> <li>29 A</li> <li>af 20 V relat value</li> <li>25 KW</li> <li>af 20 V relat value</li> <li>26 KW</li> <li>af 20 V relat value</li> <li>27 KW</li> <li>af 20 V relat value</li> <li>40 KC relative</li> <li>40 KC relative</li></ul>		32 A
<ul> <li></li></ul>	-	
	— at 24 V rated value	32 A
• with 2 current paths in series at DC-3 at DC-5- at 24 V rated value32 A- at 250 V rated value32 A- at 250 V rated value32 A- at 250 V rated value23 A- at 250 V rated value21 A- at 700 V rated value21 A- at 700 V rated value7.5 Aopparting power3.5 kW- at 700 V rated value3.5 kW- at 250 V rated value3.5 kW- at 250 V rated value3.5 kW- at 250 V rated value4 kW- at 250 V rated value2.6 kW- at 250 V rated value2.6 kW- at 250 V rated value2.6 kW- at 210 V rated value2.6 kW- at 200 V rated value9.6 kW- at 200 V rated value9.6 kW- at 210 V rated value10.0 t/n• at 50 - 10 kamerin750 t/n• at 50 - 10 kamerin750 t/n• at 50 - 10 kamerin10.0 V• at 50 - 10 kamerin10.0 V• at 50 - 12 kamerin9.6 kA• at 50 - 12 kamerin <td>— at 110 V rated value</td> <td>32 A</td>	— at 110 V rated value	32 A
	— at 220 V rated value	32 A
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
<ul> <li>at 220 V rited value</li> <li>23 A</li> <li>at 460 V rited value</li> <li>21 A</li> <li>at 750 V rited value</li> <li>7.5 A</li> <li>7.6 A</li></ul>	— at 24 V rated value	32 A
	— at 110 V rated value	32 A
- at 260 V relies value     7.8 A       operating power     7.8 A       - at 750 V relies value     7.8 V       - at 110 V roles value     3.5 KW       - at 220 V roles value     7.8 V       - at 220 V roles value     24 KW       - at 750 V rated value     24 KW       - at 220 V roles value     24 KW       - at 750 V rated value     9 KW       - at 220 V roles value     9 KW       - at 750 V rated value     750 th       - at 150 V rated value     150 th       - at 10 V rated value     150 th       - at 1	— at 220 V rated value	32 A
−al 750 V rated value     7.5 Å       operating power     at 100 V rated value       - at 110 V rated value     3.5 kW       - at 440 V rated value     14 kW       - at 440 V rated value     14 kW       - at 750 V rated value     24 kW       - at 100 V rated value     25 kW       - at 100 V rated value     5 kW       - at 20 V rated value     5 kW       - at 440 V rated value     9 kW       - at 450 V rated value     9 kW       - at 750 V rated value     9 kW       - at 50 V rated value     9 kW       - at 50 V rated value     1500 1/h       • at 50 V rated value     120 V       oparating range factor control supply voltage rated value of magnet coll at AC     08 kL       • at 50 V rated value     132 V       opparating range factor control supply voltage rated value of magnet coll at AC     60 kL       • at 50 Hz     0.8 1.1       • at 60 Hz     0.8 1.1       • at 60 Hz     0.8 1.1       • at 60 Hz     10 VA <tr< td=""><td>— at 440 V rated value</td><td>29 A</td></tr<>	— at 440 V rated value	29 A
operating power     at 1C-1       - at 12 V rated value     3.5 kW       - at 220 V rated value     7 kW       - at 420 V rated value     7 kW       - at 10 V rated value     24 kW       • at DC-3     24 kW       - at 10 V rated value     24 kW       • at DC-3 at DC-5     24 kW       - at 10 V rated value     25 kW       - at 220 V rated value     9 kW       - at 500 V rated value     9 kW       - at 500 V rated value     9 kW       - at DC-1 maximum     1 500 l/h       • at DC-1 maximum     1 500 l/h       • at DC-1 maximum     750 l/h       • at DC-1 maximum     750 l/h       • at DC-1 maximum     1 500 l/h       • at DC-1 maximum     750 l/h       • at DC-1 maximum     750 l/h       • at DC-1 maximum     120 V       • at DC-1 maximum <td< td=""><td>— at 600 V rated value</td><td>21 A</td></td<>	— at 600 V rated value	21 A
ert DC-1         - at 110 Vrated value         - at 140 Vrated value         - at 440 Vrated value         - at 750 Vrated value         - at 50 Hz         - at 50 Hz         - at 60 Hz	— at 750 V rated value	7.5 A
	operating power	
	• at DC-1	
	— at 110 V rated value	3.5 kW
		7 kW
• at DC-3 at DC-5         2.5 kW           - at 110 V rated value         2.5 kW           - at 240 V rated value         9 kW           - at 400 V rated value         9 kW           - at 500 V rated value         9 kW           - at DC-1 maximum         9 kW           - at DC-1 maximum         1 500 1/h           • at DC-5 maximum         750 1/		
		2.5 kW
operating frequency       1 500 1/h         • at DC-1 maximum       1 500 1/h         • at DC-5 maximum       750 1/h         Control circuit/ Control       750 1/h         apparent pick-twip ower of magnet coil at AC       68 VA         • at 50 Hz       0.86         • at 50 Hz       0.86         • at 50 Hz       0.79         apparent holding power of magnet coil at AC       10 VA         • at 60 Hz       0.29         • at 60 Hz       0.29         • at 60 Hz       0.29		
• at DC-1 maximum       1 500 1/h         • at DC-3 maximum       750 1/h         • at DC-5 maximum       750 1/h         Control circuit/ Control       Type of voltage of the control supply voltage         • at DC-4 maximum       AC         control supply voltage at AC       110 V         • at 60 Hz rated value       110 V         • at 50 Hz       0.8 1.1         apparent pick-up power of magnet coil at AC       68 VA         • at 50 Hz       0.8 VA         • at 60 Hz       68 VA         • at 60 Hz       0.8 VA         • at 60 Hz       0.79         apparent holding power of magnet coil at AC       10 VA         • at 60 Hz       0.29         • at 60 Hz       0.29         • at 60 Hz       0.29         • at 60 Hz       0.3         arcing time       2030 ms         Auxiliary circuit       2         number of NC contacts for auxi		4 KVV
• at DC-3 maximum       750 1/h         • at DC-5 maximum       750 1/h         Control circuit/ Control          type of voltage of the control supply voltage       AC         control supply voltage at AC       110 V         • at 60 Hz rated value       132 V         operating range factor control supply voltage rated value of magnet coll at AC       68 VA         • at 50 Hz       0.8 1.1         apparent pick-up power of magnet coll at AC       68 VA         • at 60 Hz       0.8 1.1         apparent pick-up power of magnet coll at AC       68 VA         • at 60 Hz       0.86         • at 60 Hz       0.86         • at 60 Hz       0.86         • at 60 Hz       0.29         • at 60 Hz       0.3         arcing time       20 30 ms         Availary circuit       2         number of NC contacts for auxiliary contacts       2         • instantaneous contact       2         • instantaneous contact       2         • instantaneous contact       2         • insta		1 500 1/b
• at DC-5 maximum     750 1/h       Control circuit/ Control        type of voltage of the control supply voltage     AC       control supply voltage at AC        • at 50 Hz rated value     110 V       • at 60 Hz rated value     132 V       operating range factor control supply voltage rated value of magnet coil at AC     68 VA       • at 50 Hz     0.8 1.1       apparent pick-up power of magnet coil at AC     68 VA       • at 50 Hz     0.8 VA       • at 60 Hz     0.86       • at 60 Hz     0.79       apparent holding power of magnet coil at AC     10 VA       • at 60 Hz     0.79       apparent holding power of magnet coil at AC     10 VA       • at 60 Hz     0.79       apparent holding power of magnet coil at AC     10 VA       • at 60 Hz     0.29       • at 60 Hz     0.29       • at 60 Hz     0.3       arcing time     20 30 ms       Auxillary circuit     2       number of NC contacts for auxiliary contacts     2       • instantaneous contact		
Control circuit/ Control         type of voltage of the control supply voltage       AC         control supply voltage at AC       110 V         • at 50 Hz rated value       132 V         operating range factor control supply voltage rated value of magnet coll at AC       0.8 1.1         • at 50 Hz       0.8 1.1         apparent pick-up power of magnet coll at AC       68 VA         • at 50 Hz       0.8 1.1         apparent pick-up power of magnet coll at AC       68 VA         • at 60 Hz       0.86         • at 60 Hz       0.79         apparent holding power of magnet coll at AC       10 VA         • at 60 Hz       0.79         apparent holding power of magnet coll at AC       10 VA         • at 50 Hz       0.86         • at 60 Hz       0.79         apparent holding power of magnet coll at AC       10 VA         • at 60 Hz       12 VA         Inductive power factor with the holding power of the coil       0.29         • at 60 Hz       0.3         arcing time       20 30 ms         Avxillary circuit       2         number of NC contacts for auxillary contacts       2         • instantaneous contact       2         • instantaneous contact       <		
type of voltage of the control supply voltage         AC           control supply voltage at AC         110 V           • at 50 Hz rated value         132 V           operating range factor control supply voltage rated value of magnet coil at AC         68, 1.1           • at 50 Hz         0.8, 1.1           apparent pick-up power of magnet coil at AC         68 VA           • at 50 Hz         0.8, 1.1           apparent pick-up power of magnet coil at AC         68 VA           • at 50 Hz         0.86           • at 50 Hz         0.79           apparent holding power of magnet coil at AC         10 VA           • at 50 Hz         0.29           • at 50 Hz         0.29           • at 50 Hz         0.3           arcing time         20 30 ms           Auxiliary circuit         0.3           number of NC contacts for auxiliary contacts         2           • instantaneous contact         2 <t< td=""><td></td><td>750 1/1</td></t<>		750 1/1
A control supply voltage at AC       it SO Hz rated value         • at SO Hz rated value       110 V         • at SO Hz rated value       132 V         operating range factor control supply voltage rated value of magnet coil at AC       68 VA         • at SO Hz       0.8 1.1         apparent pick-up power of magnet coil at AC       68 VA         • at SO Hz       0.8 0.8 1.1         apparent pick-up power of magnet coil at AC       68 VA         • at SO Hz       0.86         • at SO Hz       0.92         • at SO Hz       0.29         • at SO Hz       0.29         • at SO Hz       0.3         arcing time       20 30 ms         Auxiliary circuit       2         number of NC contacts for auxiliary contacts       2         • instantaneous contact       2         • instantaneous contact       2         • instantaneous contact       2		10
• at 50 Hz rated value       110 V         • at 60 Hz rated value       132 V         operating range factor control supply voltage rated value of magnet coil at AC       68 VA         • at 50 Hz       0.8 1.1         apparent pick-up power of magnet coil at AC       68 VA         • at 50 Hz       68 VA         • at 50 Hz       95 VA         inductive power factor with closing power of the coil       0.86         • at 50 Hz       0.79         apparent holding power of magnet coil at AC       10 VA         • at 50 Hz       0.29         • at 60 Hz       0.29         • at 60 Hz       0.3         arcing time       20 30 ms         Auxiliary circuit       2         number of NC contacts for auxiliary contacts       2         • instantaneous contact       2         • instantaneous contact       2         • instantaneous contact       2		AC
• at 60 Hz rated value132 Voperating range factor control supply voltage rated value of magnet coil at AC• at 50 Hz0.8 1.1apparent pick-up power of magnet coil at AC68 VA• at 50 Hz68 VA• at 50 Hz68 VA• at 50 Hz0.8 C• at 50 Hz0.7 9apparent holding power of magnet coil at AC10 VA• at 50 Hz0.2 P• at 60 Hz0.2 P• at 60 Hz0.2 P• at 60 Hz0.2 P• at 60 Hz0.3 C• at 60 Hz0.3 C• at 60 Hz0.3 C• at 60 Hz0.1 30 msAuxiliary circuit2number of NC contacts for auxiliary contacts2• instantaneous contact2• operational current at AC-150• operational cu	a suctional assumption of the second states and the second s	
operating range factor control supply voltage rated value of magnet coil at AC0.8 1.1apparent pick-up power of magnet coil at AC68 VA• at 50 Hz68 VA• at 60 Hz95 VAinductive power factor with closing power of the coil0.86• at 50 Hz0.86• at 60 Hz0.79apparent holding power of magnet coil at AC10 VA• at 60 Hz0.79apparent holding power of magnet coil at AC10 VA• at 50 Hz0.29• at 60 Hz0.29• at 60 Hz0.29• at 60 Hz0.29• at 60 Hz0.30 msAuxiliary circuit0.30 msAuxiliary circuit2number of NC contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2• instantaneous contact2operational current at AC-12 maximum10 Aoperational current at AC-150		
magnet coil at AC• at 50 Hz0.8 1.1apparent pick-up power of magnet coil at AC68 VA• at 50 Hz68 VA• at 60 Hz95 VAinductive power factor with closing power of the coil0.86• at 50 Hz0.86• at 60 Hz0.79apparent holding power of magnet coil at AC10 VA• at 50 Hz0.79apparent holding power of magnet coil at AC10 VA• at 60 Hz10 VA• at 60 Hz10 VA• at 60 Hz0.29• at 60 Hz0.29• at 60 Hz0.29• at 60 Hz0.30 msAuxiliary circuit20 30 msAuxiliary circuit2number of NC contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2• instantaneous contact2• operational current at AC-12 maximum10 A• operational current at AC-15•	• at 50 Hz rated value	
• at 50 Hz0.8 1.1apparent pick-up power of magnet coil at AC68 VA• at 50 Hz68 VA• at 60 Hz95 VAinductive power factor with closing power of the coil0.86• at 60 Hz0.79apparent holding power of magnet coil at AC10 VA• at 60 Hz0.79apparent holding power of magnet coil at AC10 VA• at 50 Hz0.29• at 60 Hz0.29• at 60 Hz0.29• at 60 Hz0.3 aarcing time20 30 msAuxiliary circuit2number of NC contacts for auxiliary contacts2• instantaneous contact2• instantaneous contact2number of NO contacts for auxiliary contacts2• instantaneous contact2• instantaneous contact2• instantaneous contact2• instantaneous contact2• operational current at AC-1510 A	<ul><li>at 50 Hz rated value</li><li>at 60 Hz rated value</li></ul>	
apparent pick-up power of magnet coil at AC       68 VA         • at 50 Hz       68 VA         • at 60 Hz       95 VA         inductive power factor with closing power of the coil       0.86         • at 50 Hz       0.86         • at 60 Hz       0.79         apparent holding power of magnet coil at AC       10 VA         • at 60 Hz       10 VA         • at 60 Hz       0.29         • at 60 Hz       0.29         • at 60 Hz       0.3         inductive power factor with the holding power of the coil       0.29         • at 60 Hz       0.3         atcing time       2030 ms         Auxiliary circuit       2         number of NC contacts for auxiliary contacts       2         • instantaneous contact       2         • operational current at AC-12 maximum       10 A         operational current at AC-15       0	at 50 Hz rated value     at 60 Hz rated value     operating range factor control supply voltage rated value of	
• at 50 Hz68 VA• at 60 Hz95 VAinductive power factor with closing power of the coil0.86• at 50 Hz0.86• at 60 Hz0.79apparent holding power of magnet coil at AC10 VA• at 60 Hz10 VA• at 60 Hz10 VA• at 60 Hz20 VAinductive power factor with the holding power of the coil0.29• at 60 Hz0.3arcing time20 30 msAxxiliary circuit2number of NC contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2operational current at AC-12 maximum10 Aoperational current at AC-1510 A	at 50 Hz rated value     at 60 Hz rated value     operating range factor control supply voltage rated value of     magnet coil at AC	132 V
• at 80 Hz95 VAinductive power factor with closing power of the coil0.86• at 50 Hz0.86• at 60 Hz0.79apparent holding power of magnet coil at AC10 VA• at 50 Hz10 VA• at 60 Hz12 VAinductive power factor with the holding power of the coil0.29• at 60 Hz0.3arcing time2030 msAuxiliary circuit2number of NC contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2operational current at AC-12 maximum10 Aoperational current at AC-1510 A	at 50 Hz rated value     at 60 Hz rated value     operating range factor control supply voltage rated value of     magnet coil at AC         at 50 Hz	132 V 0.8 1.1
inductive power factor with closing power of the coll0.86• at 50 Hz0.79apparent holding power of magnet coil at AC10 VA• at 50 Hz10 VA• at 60 Hz12 VAinductive power factor with the holding power of the coll0.29• at 50 Hz0.3arcing time20 30 msAuxiliary circuit2number of NC contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2operational current at AC-12 maximum10 Aoperational current at AC-1510 A	at 50 Hz rated value     at 60 Hz rated value     operating range factor control supply voltage rated value of     magnet coil at AC         at 50 Hz     apparent pick-up power of magnet coil at AC	132 V 0.8 1.1 68 VA
• at 50 Hz0.86• at 60 Hz0.79apparent holding power of magnet coil at AC10 VA• at 50 Hz10 VA• at 60 Hz12 VAinductive power factor with the holding power of the coil0.29• at 60 Hz0.29• at 60 Hz0.3arcing time20 30 msAuxiliary circuit2number of NC contacts for auxiliary contacts2• instantaneous contact2• instantaneous contact2number of CO contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2operational current at AC-12 maximum10 Aoperational current at AC-151	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> </ul>	132 V 0.8 1.1 68 VA 68 VA
• at 60 Hz0.79apparent holding power of magnet coil at AC10 VA• at 50 Hz10 VA• at 60 Hz12 VAinductive power factor with the holding power of the coil0.29• at 60 Hz0.29• at 60 Hz0.3arcing time20 30 msAuxiliary circuit2number of NC contacts for auxiliary contacts2• instantaneous contact2number of NO contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2• instantaneous contact2number of AD contacts for auxiliary contacts2• instantaneous contact2number of AD contacts for auxiliary contacts0identification number and letter for switching elements22operational current at AC-12 maximum10 Aoperational current at AC-15	at 50 Hz rated value     at 60 Hz rated value     operating range factor control supply voltage rated value of     magnet coil at AC         at 50 Hz     apparent pick-up power of magnet coil at AC         at 50 Hz         at 60 Hz	132 V 0.8 1.1 68 VA 68 VA 95 VA
apparent holding power of magnet coil at AC10 VA• at 50 Hz10 VA• at 60 Hz12 VAinductive power factor with the holding power of the coil0.29• at 50 Hz0.29• at 60 Hz0.3arcing time20 30 msAuxiliary circuit2number of NC contacts for auxiliary contacts2• instantaneous contact2• instantaneous contact2number of CO contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2• instantaneous contact2operational current at AC-12 maximum10 Aoperational current at AC-1510 VA	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> </ul>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86
• at 50 Hz10 VA• at 60 Hz12 VAinductive power factor with the holding power of the coil0.29• at 50 Hz0.29• at 60 Hz0.3arcing time20 30 msAuxiliary circuit2number of NC contacts for auxiliary contacts2• instantaneous contact2number of NO contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2• instantaneous contact2operational current at AC-12 maximum10 Aoperational current at AC-15	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> </ul> </li> </ul>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86
• at 60 Hz12 VAinductive power factor with the holding power of the coil0.29• at 50 Hz0.29• at 60 Hz0.3arcing time20 30 msAuxiliary circuit20 30 msnumber of NC contacts for auxiliary contacts2• instantaneous contact2number of NO contacts for auxiliary contacts2• instantaneous contact2number of CO contacts for auxiliary contacts2• instantaneous contact2• instantaneous contact2• operational current at AC-12 maximum10 A• operational current at AC-15•	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86 0.79
inductive power factor with the holding power of the coil0.29• at 50 Hz0.29• at 60 Hz0.3arcing time20 30 msAuxiliary circuit2number of NC contacts for auxiliary contacts2• instantaneous contact2• operational current at AC-12 maximum10 A• operational current at AC-15	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>at 50 Hz <ul> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> </ul>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86 0.79 10 VA
• at 50 Hz0.29• at 60 Hz0.3arcing time20 30 msAuxiliary circuit2number of NC contacts for auxiliary contacts2• instantaneous contact2• operational current at AC-12 maximum10 A• operational current at AC-15Image: Contact and the state of	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>at 50 Hz <ul> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86 0.79 10 VA 10 VA
• at 60 Hz0.3arcing time20 30 msAuxiliary circuit2number of NC contacts for auxiliary contacts2• instantaneous contact2• instantaneous contact for auxiliary contacts2• instantaneous contact2• operational current at AC-12 maximum10 A• operational current at AC-15• • • • • • • • • • • • • • • • • • •	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>at 50 Hz <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> </ul>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86 0.79 10 VA 10 VA 10 VA
arcing time20 30 msAuxiliary circuitnumber of NC contacts for auxiliary contacts2• instantaneous contact2number of NO contacts for auxiliary contacts2• instantaneous contact2• operational current at AC-12 maximum10 A• operational current at AC-15•	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>at 50 Hz <ul> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 50 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> </ul>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.79 10 VA 10 VA 10 VA 12 VA
Auxiliary circuit         number of NC contacts for auxiliary contacts       2         • instantaneous contact       2         number of NO contacts for auxiliary contacts       2         • instantaneous contact       2         number of CO contacts for auxiliary contacts       0         identification number and letter for switching elements       22         operational current at AC-12 maximum       10 A         operational current at AC-15       10 A	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>at 50 Hz <ul> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>at 60 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 50 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 50 Hz <ul> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.79 10 VA 10 VA 12 VA 0.29 0.29
number of NC contacts for auxiliary contacts       2         • instantaneous contact       2         number of NO contacts for auxiliary contacts       2         • instantaneous contact       2         • instantaneous contact       2         number of CO contacts for auxiliary contacts       0         identification number and letter for switching elements       22         operational current at AC-12 maximum       10 A         operational current at AC-15       -15	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 50 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 50 Hz <ul> <li>at 60 Hz</li> </ul> </li>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.79 10 VA 10 VA 12 VA 0.29 0.29 0.3
• instantaneous contact       2         number of NO contacts for auxiliary contacts       2         • instantaneous contact       2         • instantaneous contact       0         number of CO contacts for auxiliary contacts       0         identification number and letter for switching elements       22         operational current at AC-12 maximum       10 A         operational current at AC-15	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> <li>inductive power factor with closing power of the coil <ul> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 50 Hz <ul> <li>at 60 Hz</li> </ul> </li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 50 Hz <ul> <li>at 60 Hz</li> </ul> </li>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.79 10 VA 10 VA 12 VA 0.29 0.29 0.3
number of NO contacts for auxiliary contacts       2         • instantaneous contact       2         number of CO contacts for auxiliary contacts       0         identification number and letter for switching elements       22         operational current at AC-12 maximum       10 A         operational current at AC-15	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> <li>at 60 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86 0.79 10 VA 10 VA 10 VA 12 VA 0.29 0.29 0.3 20 30 ms
• instantaneous contact       2         number of CO contacts for auxiliary contacts       0         identification number and letter for switching elements       22         operational current at AC-12 maximum       10 A         operational current at AC-15	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>at 50 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.79 10 VA 10 VA 10 VA 12 VA 0.29 0.29 0.3 20 30 ms
number of CO contacts for auxiliary contacts       0         identification number and letter for switching elements       22         operational current at AC-12 maximum       10 A         operational current at AC-15       10 A	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.79 10 VA 10 VA 10 VA 12 VA 0.29 0.29 0.3 20 30 ms
identification number and letter for switching elements       22         operational current at AC-12 maximum       10 A         operational current at AC-15       10 A	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with the holding power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>arcing time</li> </ul> </li> <li>Auxiliary circuit <ul> <li>number of NC contacts for auxiliary contacts</li> <li>instantaneous contact</li> <li>number of NO contacts for auxiliary contacts</li> </ul> </li> </ul></li></ul></li></ul>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86 0.79 10 VA 10 VA 12 VA 0.29 0.29 0.3 20 30 ms
operational current at AC-12 maximum     10 A       operational current at AC-15     10 A	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>output factor with the holding power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with the holding power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with the holding power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with the holding power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> </ul></li></ul></li>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86 0.79 10 VA 10 VA 10 VA 12 VA 0.29 0.29 0.3 20 30 ms 2 2 2 2
operational current at AC-15	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>at 50 Hz</li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>at 60 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz <ul> <li>at 60 Hz</li> </ul> </li>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.79 10 VA 10 VA 10 VA 12 VA 0.29 0.29 0.3 20 30 ms 2 2 2 2 0
•	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>at 50 Hz</li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz<!--</td--><td>132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86 0.79 10 VA 10 VA 10 VA 12 VA 0.29 0.29 0.3 20 30 ms 2 2 2 2 2 2 2 2 2 2</td></li>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86 0.79 10 VA 10 VA 10 VA 12 VA 0.29 0.29 0.3 20 30 ms 2 2 2 2 2 2 2 2 2 2
at 230 V rated value     5.6 A	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>at 60 Hz</li> <li>at 6</li>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86 0.79 10 VA 10 VA 10 VA 12 VA 0.29 0.29 0.3 20 30 ms 2 2 2 2 2 2 2 2 2 2
	<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>at 60 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>out 50 Hz</li> <li>at 60 Hz</li> <l< td=""><td>132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86 0.79 10 VA 10 VA 10 VA 12 VA 0.29 0.3 20 30 ms 2 2 2 2 2 2 10 A</td></l<>	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86 0.79 10 VA 10 VA 10 VA 12 VA 0.29 0.3 20 30 ms 2 2 2 2 2 2 10 A

<ul> <li>at 400 V rated value</li> </ul>	3.6 A
• at 500 V rated value	2.5 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	10 A
<ul> <li>at 60 V rated value</li> </ul>	10 A
<ul> <li>at 110 V rated value</li> </ul>	3.2 A
<ul> <li>at 125 V rated value</li> </ul>	2.5 A
<ul> <li>at 220 V rated value</li> </ul>	0.9 A
at 600 V rated value	0.22 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	10 A
at 48 V rated value	5 A
<ul> <li>at 60 V rated value</li> </ul>	5 A
• at 110 V rated value	1.14 A
• at 125 V rated value	0.98 A
• at 220 V rated value	0.48 A
• at 600 V rated value	0.07 A
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	2 x 3NA3020 (50 A) in series (750 V, 3 kA)
— with type of assignment 2 required	2 x 3NA3020 (50 A) in series (750 V, 3 kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 16 A (500 V, 1 kA)
Installation/ mounting/ dimensions	go. 10 A (000 V, 1 M)
	1/ 22 5° ratation passible on vartical mounting surfaces can be tilted forward
mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
<ul> <li>side-by-side mounting</li> </ul>	Yes
height	85 mm
width	70 mm
depth	104 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	15 mm
— backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	30 mm
— backwards	0 mm
— upwards	10 mm
	TOTIIII
— at the side	10 mm
— at the side — downwards	
— downwards	10 mm
	10 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> </ul>	10 mm 10 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>backwards</li> </ul>	10 mm 10 mm 30 mm 0 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> </ul>	10 mm 10 mm 30 mm 0 mm 10 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> </ul>	10 mm 10 mm 30 mm 0 mm 10 mm 10 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul>	10 mm 10 mm 30 mm 0 mm 10 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals	10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm
<ul> <li>downwards</li> <li>for live parts         <ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>Connections/ Terminals         <ul> <li>type of electrical connection</li> </ul> </li> </ul>	10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> </ul>	10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 20 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul>	10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>type of connectable conductor cross-sections for main contacts</li> </ul>	10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals screw-type terminals
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul>	10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 20 mm

type of connectable co	onductor cross-sections				
<ul> <li>for auxiliary containing</li> </ul>	acts				
— solid or stranded		2x (1 2.5 mm²)			
— finely stranded with core end processing		2x (0.75 1.5 mm²)			
afety related data					
product function mirror contact according to IEC 60947-4-1		Yes; One NC contact each must be connected in series for the right and left auxiliary switch block respectively			
protection class IP on the front according to IEC 60529		60529	IP00		
ertificates/ approvals					
General Product Appr	oval				Functional Safety/Safety of Ma chinery
	<u>Confirmation</u>		<b>U</b>	EHC	<u>Type Examination Ce</u> <u>tificate</u>
Functional Safety/Safety of Ma- chinery	Declaration of Conformi	ity	Test Certificates		
Type Examination Cer- tificate	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	<u>Miscellaneous</u>
other	Dangerous Good				
<b>Confirmation</b>	Transport Information				

	ens has decided to exit the Russian market (see here). /press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Please	ins is working on the renewal of the current EAC certificates. The contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to a elevant market (other than the sanctioned EAEU member states Russia or Belarus).
	nation on the packaging /support.industry.siemens.com/cs/ww/en/view/109813875
	nation- and Downloadcenter (Catalogs, Brochures,) /www.siemens.com/ic10
	/mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3TC4417-0BF0
	nline generator support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4417-0BF0
	ce&Support (Manuals, Certificates, Characteristics, FAQs,) /support.industry.siemens.com/cs/ww/en/ps/3TC4417-0BF0
	e database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC4417-0BF0⟨=en
	cteristic: Tripping characteristics, I²t, Let-through current /support.industry.siemens.com/cs/ww/en/ps/3TC4417-0BF0/char
	er characteristics (e.g. electrical endurance, switching frequency) www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4417-0BF0&objecttype=14&gridview=view1





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