

21	0.00
1	5000
2	

Product designation Product type designation			Power contactor BF12
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	28
Operational current le			
	AC-1 (≤40°C)	А	28
	AC-1 (≤55°C)	А	23
	AC-1 (≤70°C)	А	20
	AC-3 (≤440V ≤55°C)	А	12
	AC-4 (400V)	Α	7.9
Rated operational power AC-3 (T≤55°C)			
	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	5.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	10
	400V	kW	18
	500V	kW	23
	690V	kW	32
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			. –
	≤24V	A	17
	48V	A	15
	75V	A	13
	110V	A	6
IFC may automate to in DC1 with 1/D < 1 may with 2 males in action	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	(0.4)/	•	00
	≤24V	A	20
	48V	A	20
	75V	A	18
	110V 220V	A	13 1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	2200	A	1
The max current le in DCT with $L/R \ge 1115$ with $3$ poles in series	≤24V	А	22
	≤24∨ 48V	A	22
	48V 75V	A	22
	110V	A	16
	TIUV	А	10



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	220V	А	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
· ·	≤24V	А	20
	48V	А	20
	75V	А	20
	110V	А	16
	220V	А	12
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	12
	48V	А	11
	75V	А	10
	110V	А	2
	220V	А	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	15
	48V	А	13
	75V	А	12
	110V	А	8
	220V	А	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	18
	48V	А	18
	75V	А	15
	110V	А	12
	220V	А	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	А	15
	48V	А	15
	75V	А	15
	110V	А	16
	220V	Α	7
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	Α	12
Making capacity (RMS value)		Α	120
Breaking capacity at voltage			
	440V	А	96
	500V	Α	96
	690V	Α	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	lth	W	2
	AC-3	W	0.4
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8

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Max number of wires simultaneously connectable         Nr.         2           Conductor section         max         10           Flexible wire lug conductor section         max         mm²         1           Flexible wire listenees         max         mm²         1           Power terminal protection according to IEC/EN 60529         PIP20 when properly wired           Mechanical features         mormal allowable         ±30°           Operating position         normal allowable         ±30°           Fixing         Screw / DIN rail 35mm         360           Conductor section         max         10           Auxiliary contact characteristics         max         10           Thermal current th         A         10         200°           EC/EN 6087-5-1 designation         A800°         F000           Operating current DC13         240°         A         3           Coperating current DC13         24V         A         5.7           Operating current DC13 <th></th> <th></th> <th>max</th> <th>lbin</th> <th>0.74</th>			max	lbin	0.74
AWG/Kcmil         max         10           Flexible w/o lug conductor section         min         mm²         1           max         mm²         6           Flexible c/w lug conductor section         min         mm²         1           max         mm²         4           Flexible with insulated spade lug conductor section         min         mm²         1           max         mm²         4         1           Power terminal protection according to IEC/EN 60529         mm²         1           Mechanical features         operating position         P20 when property wired           Operating position         normal         Vertical plan         35mm           Weight         g         360         Conductor section         35mm           AWG/kcmil conductor section         max         10         10           Audiary contact characteristics         10         10         10           Coreating current Rth         A         10         10           EC/EN 60947-5-1 designation         A600 - P600         00         000/         A         1.9           Operating current DC13         24V         A         5.7         1.4         00         2.3         110/V	Max number of wires	simultaneously connectable		Nr.	2
max     10       Flexible w/o lug conductor section     min     mm²     1       max     mm²     6       Flexible c/w lug conductor section     min     mm²     1       max     mm²     1     max     mm²     4       Flexible with insulated spade lug conductor section     min     mm²     1     1       max     mm²     1     max     mm²     4       Power terminal protection according to IEC/EN 60529     mm²     1     120 when property wired       Mechanical features     mom3     Vertical plan     35m       Operating position     normal     Vertical plan     35m       Fixing     Screw / DIN rail     35m     360       Conductor section     max     10       AuxGirkcmil conductor section     A 10     10       EC/EN 6034-5-1 designation     A 600 - P600     0perating current th       EC/EN 6034-5-1 designation     A 600 - P600     0perating current DC13       Qev     A 5.7     48W     A 2.9       G00V     A 1.4     125       Operating current DC13	Conductor section	AMC/Kemil			
Flexible w/o lug conductor section         min         mm²         1           max         mm²         1           Flexible c/w lug conductor section         min         mm²         1           max         mm²         1         max         mm²         1           Flexible with insulated spade lug conductor section         min         mm²         1         1           max         mm²         4         1         max         mm²         4           Power terminal protection according to IEC/EN 60529         mm²         4         1/20 when property wired           Mechanical features         max         10         1/20 when property wired         3/60°           Fixing         Screw / DIN rail         Screw / DIN rail         Screw / DIN rail         Screw / DIN rail           Melight         g         360         Screw / DIN rail         Screw / DIN rail           Melight         g         360         Screw / DIN rail         Screw / DIN rail           Melight         g         360         Screw / DIN rail         Screw / DIN rail           Melight         g         320°         A         10           Autiliary contact characteristics         max         10         A		AWG/Refili	may		10
min         mm²         1           max         mm²         6           Flexible c/w lug conductor section         mm²         1           max         mm²         4           Flexible with insulated spade lug conductor section         mm²         1           max         mm²         4           Power terminal protection according to IEC/EN 60529         mm²         1           Mechanical features         poperating position         Power terminal protection according to IEC/EN 60529         Vertical plan           allowable         ±30°         Screw / DIN rail         35mm           Power terminal protection according to IEC/EN 60529         Screw / DIN rail         35mm           Mechanical features         g         360         Conductor section           Conductor section         max         10         10           Auxiliary contact characteristics         max         10           Thermal current lth         A         10         10           EC/EN 60947-5-1 designation         A600 - P600         230V         A         1.9           Operating current DC12         24V         A         5.7         48V         A         2.3           EC/EN 609475-1 designation         Cost         2		Elexible w/o lug conductor section	Пах		10
max         mm²         6           Flexible c/w lug conductor section         min         mm²         1           max         mm²         4           Flexible with insulated spade lug conductor section         min         mm²         1           max         mm²         1         max         mm²         4           Power terminal protection according to IEC/EN 60529         IP20 when properly wired         1         1           Operating position         normal         Vertical plan         30°         1           Fixing         Screw / DIN reil 35mm         360         3         3           Weight         g         360         3         3         3           Conductor section         AWG/kcmil conductor section         max         10         1           Auxiliary contact characteristics         T         T         1         1           Thermal current th         A         10         1         1         1           Operating current DC12         110V         A         1,4         1           Operating current DC13         24V         A         5,7         1           Operating current DC13         24V         A         5,7         1			min	mm²	1
Flexible c/w lug conductor section       min       mm²       1         max       mm²       1         Flexible with insulated spade lug conductor section       min       mm²       1         max       mm²       1       max       mm²       1         Power terminal protection according to IEC/EN 60529       IP20 when property wired       IP20 when property wired       IP20 when property wired         Mechanical features       0       allowable       ±30°       Screw / DIN rail         String       Screw / DIN rail       35mm       Screw / DIN rail         Weight       g       360       Conductor section       Activities         Auxiliary contact characteristics       max       10       Auxiliary contact characteristics         Thermal current lth       A       10       Activities       Activities         Qperating current DC12       10V       A       5.7       Operating current DC13       Activities       Activities         Querted is       200V       A       1.4       Decenting current DC13       24V       A       5.7         Operating current DC13       24V       A       5.7       Conductor       60V       A       1.2         Qperating current DC13       24V					-
min         mm²         1           Flexible with insulated spade lug conductor section         min         mm²         4           Power terminal protection according to IEC/EN 60529         IP20 when properly wired         IP20 when properly wired           Mechanical features         Vertical plan         ±30°           Fixing         Screw / DIN rail         35mm           Weight         g         360           Conductor section         max         10           AWG/kcmil conductor section         max         10           Auxiliary contact characteristics         Termal current th         A           Thermal current th         A         10           IEC/EN 60947-5-1 designation         A600 - P600           Operating current DC12         110V         A         1.4           Operating current DC13         230V         A         3           24W         A         2.9         600V         A         1.4           Operating current DC13         24V         A         5.7         1.4           Operating current DC13         24V         A         2.9         600V         A         2.3           Electrical II/e         cycles         20000000         2.5         1.25		Flexible c/w lug conductor section			-
Flexible with insulated spade lug conductor section         min       min       mm²       1         max       mm²       1         max       mm²       1         Power terminal protection according to IEC/EN 60529       IP20 when property wired         Mechanical features       normal allowable       Vertical plan         Operating position       normal allowable       Vertical plan         Fixing       Screw / DIN rail 35mm       Screw / DIN rail 35mm         Weight       g       360         Conductor section       AWG/kcmil conductor section       A600 - P600         Auxiliary contact characteristics			min	mm²	1
min         mm²         1           max         mm²         4           Power terminal protection according to IEC/EN 60529         IP20 when properly wired           Mechanical features         Operating position         IP20 when properly wired           Operating position         normal         Vertical plan ±30°           Fixing         g         360           Conductor section         g         360           Conductor section         max         10           Avxiliary contact characteristics         10           Thermal current lth         A         10           EC/EN 60947-5-1 designation         A600 - P600           Operating current DC15         230V         A           Querating current DC12         110V         A         5.7           Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         5.7           Operations         200V         A         1.25           125V         A         1.1         220V         A         0.2           Operating current DC13         24V         A         5.7 <td< td=""><td></td><td></td><td>max</td><td>mm²</td><td>4</td></td<>			max	mm²	4
min         mm²         1           max         mm²         4           Power terminal protection according to IEC/EN 60529         IP20 when properly wired           Mechanical features         Uestion           Operating position         normal         Vertical plan allowable         ±30°           Fixing         Screw / DIN rail 35mm         Screw / DIN rail 35mm           Weight         g         360           Conductor section         max         10           Avxiliary contact characteristics            Thermal current lth         A         10           EC/EN 60947-5-1 designation         A600 - P600           Operating current DC15         230V         A           Querating current DC12         110V         A         5.7           Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         5.7           Operations         1.10V         A         5.7           Operations         0.2         000V         A         1.25           125V         A         1.1         220V         A         0.2		Flexible with insulated spade lug conductor section	۱		
Power terminal protection according to IEC/EN 60529           Mechanical features         IP20 when properly wired           Operating position         normal allowable         430°           Fixing         Screw / DIN rail 35m         35m           Weight         g         360           Conductor section         max         10           Auxiliary contact characteristics         max         10           Thermal current th         A         10           EC/EN 60947-5-1 designation         A600 - P600           Operating current DC12         10V         A           Querent DC12         10V         A         1.9           Screw / DIN rail         500V         A         1.4           Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         2.9           60V         A         2.3         110V         A         1.25           122V         A         1.1         220V         A         0.2           Operating current DC13         24V         A         0.2         000000           Electrical life         cycles         20000000				mm²	1
Power terminal protection according to TEC/EN 60529  Mechanical features Operating position  Normal allowable 430°  Screw / DIN rail 35mm Weight Screw / DIN rail 35mm N Weight Screw / DIN rail Screw / DIN rai			max	mm²	4
Mechanical features     properly wired       Operating position     normal allowable     Vertical plan ±30°       Fixing     Screw / DIN rail 38mm       Weight     g     360       Conductor section     max     10       Auxiliary contact characteristics     max     10       Thermal current th     A     10       EC/EN 60947-5-1 designation     A600 - P600       Operating current AC15     230V     A       200V     A     3       400V     A     1.9       500V     A     1.4       Operating current DC12     110V     A       0perating current DC13     24V     A       210V     A     1.25       110V     A     1.25       110V     A     1.25       110V     A     1.25       110V     A     0.2       Operating current DC13     24V     A       220V     A     1.1       220V     A     0.2       000V     A     0.2 <t< td=""><td>Power terminal proto</td><td>ation according to IEC/EN 60520</td><td></td><td></td><td>IP20 when</td></t<>	Power terminal proto	ation according to IEC/EN 60520			IP20 when
Operating position       normal allowable       Vertical plan ±30°         Fixing       Screw / DIN rail 35mm         Weight       g       360         Conductor section       max       10         AWG/kcmil conductor section         AMWG/kcmil conductor section         AUXIII of A 10         IEC/EN 60947-5-1 designation         Operating current AC15         230V A 3         A 10         A 3000 A 1.4         Operating current DC12         110V A 5.7         Operating current DC13         24V A 5.7         A 5.7         Operations         Wether and to a 1.4         2000 A 0.2		clion according to IEC/EN 00529			properly wired
normal allowable     Vertical plan ±30°       Fixing     Screw / DIN rail 35mm       Weight     g       0     g       AWG/kcmil conductor section     max       10     Auxiliary contact characteristics       Thermal current lth     A       10     A600 - P600       Operating current AC15     230V       230V     A       3     400V       4     1.9       500V     A       1.4     0       Operating current DC12     110V       10V     A       5.7     0       0perating current DC13     24V       24V     A       60V     A       2.9     60V       60V     A       2.9     60V       48V     A       2.9     60V       48V     A       2.9     60V       60V     A       2.20V     A       0.55     600V       600V     A       2.20V     A       0.2000000     2000000       Sater     2000000       Sater     2000000       Sater     2000000       Sater     20000000       Sater     20000	Mechanical features				
allowable         ±30°           Fixing         Screw / DIN rail 35mm           Weight         g         360           Conductor section         max         10           AWG/kcmil conductor section         max         10           Auxiliary contact characteristics         max         10           EC/EN 60947-5-1 designation         A         10           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         5.7         48V         A         2.9         60V         A         2.3         110V         A         5.7           Operating current DC13         24V         A         5.7         48V         A         2.9         60V         A         2.3         110V         A         1.25         125V         A         1.1         220V         A         0.2         000000         220V         A         0.55         600V         A         0.2         000000         236ty related data         2000000         2000000         236ty related data         2000000         2000000         20000000         20000000         20	Operating position				
Fixing         Screw / DIN rail 35mm           Weight         g         360           Conductor section         max         10           Auxiliary contact characteristics         max         10           Thermal current lth         A         10           EC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         5.7         Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         5.7         0 <td></td> <td></td> <td></td> <td></td> <td></td>					
Fixing         35mm           Weight         g         360           Conductor section         max         10           Auxiliary contact characteristics         max         10           Thermal current lth         A         10           EC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A           4000V         A         1,9           500V         A         1,4           Operating current DC12         10V         A           500V         A         1,4           Operating current DC13         24V         A           24V         A         5,7           48V         A         2,9           60V         A         1,2           Operating current DC13         24V         A         5,7           48V         A         2,9         60V         A         1,2           110V         A         1,25         125V         A         1,1           220V         A         0,2         000000         0,2           Operations         cycles         2000000         2,000000           Safety related data         Performan			allowable		
-         33mm           Weight         g         360           Conductor section         max         10           Auxiliary contact characteristics         max         10           Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A           230V         A         1.9           500V         A         1.4           Operating current DC12         110V         A           24V         A         5.7           Operating current DC13         24V         A           24V         A         5.7           Operating current DC13         24V         A           24V         A         5.7           Operating current DC13         24V         A           200V         A         1.25           125V         A         1.1           220V         A         0.55           600V         A         0.2           Operations         2000000         2000000           Electrical life         cycles         2000000           Safety related data         2000000	Fixing				
AWG/kcmil conductor section         max         10           Auxiliary contact characteristics					
AWG/kcmil conductor section         nax         10           Axillary contact characteristics            Thermal current lth         A         IO           IEC/EN 60947-5-1 designation         A600 - P600         Operating current AC15         A600 - P600           Operating current AC15         230V         A         3         400V         A         1.9           Operating current DC12         100V         A         5.7         5.7         5.7           Operating current DC13         24V         A         5.7         5.7           Operating current DC13         24V         A         5.7           48V         A         2.9         60V         A         2.3           110V         A         1.25         125V         A         1.1         122V           20V         A         0.25         600V         A         0.2         000000           220V         A         0.55         600V         A         0.2         000000           2125V         A         0.2         000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000				g	360
max         10           Auxiliary contact characteristics         Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - P600         Operating current AC15         230V         A         3           Qoperating current AC15         230V         A         3         400V         A         1.9           Operating current DC12         500V         A         1.4         Operating current DC12	Conductor section				
Auxiliary contact characteristics         A         10           Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         5.7         0           Operating current DC13         24V         A         5.7         0           Operating current DC13         24V         A         2.9         60V         A         2.3           110V         A         1.25         1.25V         A         1.1         220V         A         0.55         600V         A         0.2         0         0         2         0         0         0         2         0         0         0         2         0		AWG/kcmil conductor section			
Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         5.7         0           Operating current DC13         24V         A         5.7         0           Querting current DC13         24V         A         5.7           Querting current DC13         48V         A         2.9           GOV         A         1.25         1.1         2.25           125V         A         1.1         220V         A         0.55           Mechanical life         cycles         2000000         2000000         2000000           Stafty related data         2000			max		10
IEC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         5.7         Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         5.7         48V         A         2.9         60V         A         1.25         125V         A         1.1         220V         A         0.55         600V         A         0.2         Operations         A         0.2         Operations         A         0.2         Operations         Cycles         2000000         2364ty related data         Performance level B10d according to EN/ISO 13489-1         rated load         cycles         2000000         2000000         2000000         Mirror contats according to IEC/EN 609474-4-1         yes         Yes         EMC compatibility         yes		acteristics		٨	40
Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         5.7           Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         5.7           48V         A         2.9         60V         A         2.3           110V         A         1.25         125V         A         1.1           220V         A         0.55         600V         A         0.2           Operations           2000000         Electrical life         cycles         2000000           Safety related data           2000000         2000000         Safety related data            Performance level B10d according to EN/ISO 13489-1         rated load         cycles         2000000         2000000           Mirror contats according to IEC/EN 609474-4-1         yes         Yes         EMC compatibility         yes	I nermal current ith			A	10
230V         A         3           400V         A         1.9           500V         A         1.4           Operating current DC12         110V         A         5.7           Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         2.9           60V         A         2.3         110V         A         1.25           110V         A         1.25         125V         A         1.1           220V         A         0.55         600V         A         0.2           Operations		acianation		73	
400V         A         1.9           500V         A         1.4           Operating current DC12         110V         A         5.7           Operating current DC13         24V         A         5.7           48V         A         2.9         60V         A         2.3           110V         A         1.25         125V         A         1.1           220V         A         0.55         600V         A         0.2           Operations         2000000         A         0.2         000000           Electrical life         cycles         2000000         2000000           Safety related data	IEC/EN 60947-5-1 de			~	
500V         Å         1.4           Operating current DC12         110V         Å         5.7           Operating current DC13         24V         Å         5.7           48V         Å         2.9         60V         Å         2.3           110V         Å         1.25         125V         Å         1.1           220V         Å         0.55         600V         Å         0.55           600V         Å         0.55         600V         Å         0.2           Operations           Mechanical life         cycles         2000000           Electrical life         cycles         2000000           Safety related data           Performance level B10d according to EN/ISO 13489-1           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         2000000           Mirror contats according to IEC/EN 609474-4-1         yes         2000000           Mirror contats according to IEC/EN 609474-4-1         yes	IEC/EN 60947-5-1 de		2201/		A600 - P600
Operating current DC12         110V         A         5.7           Operating current DC13         24V         A         5.7           48V         A         2.9         60V         A         2.3           110V         A         1.25         125V         A         1.1           220V         A         0.55         600V         A         0.2           Operations         X         X         X         X         X           Mechanical life         cycles         2000000         X         X         X           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         2000000           Mirror contats according to IEC/EN 609474-4-1         yes         Yes         X	IEC/EN 60947-5-1 de			A	A600 - P600 3
110V         A         5.7           Operating current DC13         24V         A         5.7           48V         A         2.9         60V         A         2.3           110V         A         1.25         125V         A         1.1           220V         A         0.55         600V         A         0.2           Operations         Experimentation         Experimentation         Experimentation           Mechanical life         cycles         2000000         2000000           Electrical life         cycles         2000000         2000000           Safety related data         Emperimentation of the EN/ISO 13489-1         Experimentational load         cycles         2000000           Mirror contats according to IEC/EN 609474-4-1         yes         2000000         2000000	IEC/EN 60947-5-1 de		400V	A A	A600 - P600 3 1.9
Operating current DC13         24V         A         5.7           48V         A         2.9         60V         A         2.3           110V         A         1.25         125V         A         1.1           220V         A         0.55         600V         A         0.2           Operations         Cycles         2000000         Electrical life         cycles         2000000           Safety related data         Performance level B10d according to EN/ISO 13489-1         rated load         cycles         2000000           Mirror contats according to IEC/EN 609474-4-1         yes         2000000         2000000	IEC/EN 60947-5-1 de Operating current AC	15	400V	A A	A600 - P600 3 1.9
24V       A       5.7         48V       A       2.9         60V       A       2.3         110V       A       1.25         125V       A       1.1         220V       A       0.55         60V       A       0.2         Operations         Mechanical life       cycles       2000000         Electrical life       cycles       2000000         Safety related data         Performance level B10d according to EN/ISO 13489-1         rated load       cycles       2000000         Mirror contats according to IEC/EN 609474-4-1       yes         EMC compatibility       yes       yes	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V	A A A	A600 - P600 3 1.9 1.4
48V       A       2.9         60V       A       2.3         110V       A       1.25         125V       A       1.1         220V       A       0.55         600V       A       0.2         Operations         Mechanical life       cycles       2000000         Electrical life       cycles       2000000         Safety related data         Performance level B10d according to EN/ISO 13489-1         rated load       cycles       2000000         Mirror contats according to IEC/EN 609474-4-1       yes       2000000         EMC compatibility       yes       2000000	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V	A A A	A600 - P600 3 1.9 1.4
60V         A         2.3           110V         A         1.25           125V         A         1.1           220V         A         0.55           600V         A         0.2           Operations         volume         volume           Mechanical life         cycles         2000000           Electrical life         cycles         2000000           Safety related data         volume         volume           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         2000000           Mirror contats according to IEC/EN 609474-4-1         yes         yes           EMC compatibility         yes	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V	A A A A	A600 - P600 3 1.9 1.4 5.7
110V       A       1.25         125V       A       1.1         220V       A       0.55         600V       A       0.2         Operations         Mechanical life       cycles       2000000         Electrical life       cycles       2000000         Safety related data       z       z         Performance level B10d according to EN/ISO 13489-1       rated load       cycles       2000000         Mirror contats according to IEC/EN 609474-4-1       yes       yes         EMC compatibility       yes       yes	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V 24V	A A A A	A600 - P600 3 1.9 1.4 5.7 5.7
125VA1.1220VA0.55600VA0.2OperationsMechanical lifecycles2000000Electrical lifecycles2000000Safety related datacycles2000000Performance level B10d according to EN/ISO 13489-1rated load mechanical loadcycles2000000Mirror contats according to IEC/EN 609474-4-1yesyesyesEMC compatibilityyesyesyes	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V 24V 48V	A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9
220V 600VA0.55 0.2OperationsElectrical lifecycles2000000 200000Electrical lifecycles2000000 200000Safety related datacycles2000000 200000Performance level B10d according to EN/ISO 13489-1rated load mechanical loadcycles2000000 2000000Mirror contats according to IEC/EN 609474-4-1yesyesEMC compatibilityyesyes	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V 24V 48V 60V	A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3
600VA0.2Operationscycles2000000Mechanical lifecycles2000000Electrical lifecycles2000000Safety related dataPerformance level B10d according to EN/ISO 13489-1rated loadcyclesrated loadcycles2000000mechanical loadcycles2000000Mirror contats according to IEC/EN 609474-4-1yesEMC compatibilityyes	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V 24V 48V 60V 110V	A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25
Mechanical lifecycles2000000Electrical lifecycles2000000Safety related dataPerformance level B10d according to EN/ISO 13489-1rated load mechanical loadcycles2000000Mirror contats according to IEC/EN 609474-4-1yesyesEMC compatibilityyes	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Electrical life       cycles       2000000         Safety related data       Performance level B10d according to EN/ISO 13489-1       rated load       cycles       2000000         mechanical load       cycles       20000000       20000000       20000000         Mirror contats according to IEC/EN 609474-4-1       yes       yes         EMC compatibility       yes       yes	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 2000000 mechanical load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Performance level B10d according to EN/ISO 13489-1 rated load cycles 2000000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
rated load     cycles     2000000       mechanical load     cycles     2000000       Mirror contats according to IEC/EN 609474-4-1     yes       EMC compatibility     yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
mechanical load       cycles       2000000         Mirror contats according to IEC/EN 609474-4-1       yes         EMC compatibility       yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Mirror contats according to IEC/EN 609474-4-1     yes       EMC compatibility     yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
EMC compatibility yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A A Cycles cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000
	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	15 12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 2000000 2000000 2000000
AC coil operating	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B7 Mirror contats accord	15 12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 2000000 2000000 2000000
	IEC/EN 60947-5-1 de         Operating current AC         Operating current DC         Operations         Mechanical life         Electrical life         Safety related data         Performance level B7         Mirror contats accord         EMC compatibility	15 12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 2000000 2000000 2000000 2000000 yes



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Rated AC voltage at 50	)/60Hz		V	42
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11	
		min	%Us	20
	of 50/00 la poil powered at 00 la	max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	85
		max	%Us	110
	drop-out	Шах	/003	110
		min	%Us	20
		max	%Us	55
AC average coil consu	mption at 20°C		,	
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	<u></u>		
	•	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding :	≤20°C 50Hz		W	2.5
Max cycles frequency				
Machanical anaration			. /	2600
Mechanical operation			cycles/h	3600
Operating times			cycles/h	3600
			cycles/h	3600
Operating times	in AC		cycles/h	3600
Operating times				
Operating times	in AC	min	ms	8
Operating times	in AC Closing NO	min max		
Operating times	in AC	max	ms ms	8 24
Operating times	in AC Closing NO	max	ms ms ms	8 24 10
Operating times	in AC Closing NO Opening NO	max	ms ms	8 24
Operating times	in AC Closing NO	max min max	ms ms ms ms	8 24 10 20
Operating times	in AC Closing NO Opening NO	max min max min	ms ms ms ms ms	8 24 10 20 14
Operating times	in AC Closing NO Opening NO Closing NC	max min max	ms ms ms ms	8 24 10 20
Operating times	in AC Closing NO Opening NO	max min max min	ms ms ms ms ms	8 24 10 20 14
Operating times	in AC Closing NO Opening NO Closing NC	max min max min max	ms ms ms ms ms	8 24 10 20 14 28
Operating times	in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms ms	8 24 10 20 14 28 7
Operating times Average time for Us co	in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms ms	8 24 10 20 14 28 7
Operating times Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms ms	8 24 10 20 14 28 7
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Opening NO Closing NC Opening NC for three-phase AC motor	max min max min max min max	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us co	in AC Closing NO Opening NO Opening NO Closing NC Opening NC for three-phase AC motor	max min max min max min max at 480V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Opening NO Closing NC Opening NC for three-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Opening NO Closing NC Opening NC opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms A A	8 24 10 20 14 28 7 18 11 11 11
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Opening NO Closing NC Opening NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 11 11
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Opening NO Closing NC Opening NC opening NC	max min max min max min max at 480V at 600V 110/120V 230V	ms ms ms ms ms ms Ms A A HP HP	8 24 10 20 14 28 7 18 11 11 11 11 2
Operating times Average time for Us co <u>UL technical data</u> Full-load current (FLA)	in AC Closing NO Opening NO Opening NO Closing NC Opening NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms A A	8 24 10 20 14 28 7 18 11 11 11

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



		220/230V 460/480V	HP HP	5 7.5
		575/600V	HP	10
General USE				
	Contactor			
		AC current	А	28
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	70
	ary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
	-	max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			<u>^</u>
Pollution degree				3