SIEMENS



Reference: 3RT1326-1AL20

CONTACTOR, AC-1 40 A, AC 230 V 50/60 HZ 4-POLE, SIZE S0, SCREW CONNECTION AVAILABLE MARCH'98

Buy it at Electric Automation Network



product brand name	SIRIUS	
Product designation	power contactor	
General technical data:		
Size of contactor	S0	
Degree of pollution	3	
Protection class IP		
on the front	IP20	
of the terminal	IP20	
Mechanical service life (switching cycles)		
of contactor typical	10 000 000	
of the contactor with atd>	5 000 000	
of the contactor with atd>	10 000 000	
Ambient conditions:		
Installation altitude at height above sea level maximum	2 000 m	
Ambient temperature		
during operation	-25 +60 °C	
Main circuit:		
Number of NO contacts for main contacts	4	
Number of NC contacts for main contacts	0	
Operating current		
at AC-1 at 400 V		

at AC-1 - up to 690 V at ambient temperature 40 °C rated value - up to 690 V at ambient temperature 60 °C rated value at AC-3 - at 400 V rated value 25 A Operating current at 1 current path at DC-1 - at 24 V rated value 35 A - at 110 V rated value 35 A - at 24 V rated value 35 A - at 24 V rated value 35 A - at 110 V rated value 35 A - at 24 V rated value 35 A - at 110 V rated value 35 A - at 24 V rated value 37 A - at 24 V rated value 38 A - at 24 V rated value 39 A - at 24 V rated value 31 A - at 24 V rated value 32 A - at 24 V rated value 33 A - at 24 V rated value 34 AC-1 - at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control supply voltage of the control supply voltage AC Control supply voltage at AC	— at ambient temperature 40 °C rated value	40 A
— up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value at AC-3 — at 400 V rated value 25 A Operating current at 1 current path at DC-1 — at 24 V rated value 35 A — at 110 V rated value 35 A — at 24 V rated value 35 A — at 24 V rated value 35 A — at 110 V rated value 35 A Operating current at 1 current path at DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 35 A with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 35 A with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 35 A operating current at 24 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 35 A at 24 V rated value 35 A at 24 V rated value 35 A operating power at AC-1 — at 400 V rated value 11 kW at AC-3 — at 400 V rated value 11 kW power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	<u> </u>	
value 40 A - up to 690 V at ambient temperature 60 °C rated value 35 A at AC-3 - at 400 V rated value 25 A Operating current at 1 current path at DC-1 - at 24 V rated value 35 A - at 110 V rated value 35 A - at 24 V rated value 20 A - at 110 V rated value 25 A - at 24 V rated value 35 A with 2 current path in series at DC-3 at DC-5 - at 24 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A - at 24 V rated value 35 A - at 400 V rated value 11 kW - at AC-3 - at 400 V rated value 11 kW - at AC-3 - at 400 V rated value 11 kW - at AC-3 - at 400 V rated value 11 kW - power loss IWI at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC		
at AC-3 — at 400 V rated value Operating current at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 24 V rated value — at 24 V rated value — at 110 V rated value — at 24 V rated value — at 110 V rated value — at 24 V rated value — 35 A — at 110 V rated value — 35 A with 3 current paths in series at DC-1 — at 24 V rated value — 35 A — at 110 V rated value — 35 A Operating current at 1 current path at DC-3 at DC-5 — at 24 V rated value — 20 A — at 110 V rated value — 35 A with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — 35 A with 2 current paths in series at DC-3 at DC-5 — at 110 V rated value — 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value — 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value — 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value — 35 A with 3 current paths in series at DC-3 at DC-5 — at 140 V rated value — 35 A The AC-1 — at 400 V rated value — 36 kW at AC-1 — at 400 V rated value — 11 kW Power loss IWI at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC		40 A
- at 400 V rated value 25 A Operating current at 1 current path at DC-1 - at 24 V rated value 35 A - at 110 V rated value 35 A with 3 current paths in series at DC-1 - at 24 V rated value 35 A with 3 current path sin series at DC-1 - at 24 V rated value 35 A Operating current at 1 current path at DC-3 at DC-5 - at 24 V rated value 20 A - at 110 V rated value 25 A with 2 current path sin series at DC-3 at DC-5 - at 24 V rated value 25 A with 2 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A operating power 35 A Act 10 V rated value 35 A Operating power 36 AC at AC-1 - at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor 15 W Type of voltage of the control supply voltage AC		35 A
Operating current at 1 current path at DC-1 - at 24 V rated value - at 110 V rated value - at 24 V rated value - at 110 V rated value - at 110 V rated value - at 24 V rated value - at 110 V rated value 20 A - at 110 V rated value - at 24 V rated value 25 A with 2 current path is series at DC-3 at DC-5 - at 24 V rated value - at 110 V rated value 15 A - at 24 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A operating current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A - at 24 V rated value 36 A - at 24 V rated value 37 A - at 400 V rated value 11 kW at AC-3 - at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	at AC-3	
at 1 current path at DC-1 — at 24 V rated value 35 A — at 110 V rated value 4.5 A with 2 current paths in series at DC-1 — at 24 V rated value 35 A — at 110 V rated value 35 A with 3 current paths in series at DC-1 — at 24 V rated value 35 A — at 110 V rated value 35 A Operating current path at DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 20 A — at 110 V rated value 20 A — at 110 V rated value 25 A with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A — at 24 V rated value 35 A Operating power at AC-1 — at 400 V rated value 11 kW at AC-2 at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	— at 400 V rated value	25 A
- at 24 V rated value 4.5 A with 2 current paths in series at DC-1 - at 24 V rated value 35 A with 3 current paths in series at DC-1 - at 24 V rated value 35 A with 3 current paths in series at DC-1 - at 24 V rated value 35 A Operating current at 1 current path at DC-3 at DC-5 - at 24 V rated value 20 A - at 110 V rated value 20 A with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 15 A with 2 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A with 2 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 10 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 4 100 V rated value 35 A - at 400 V rated value 11 kW at AC-3 - at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	Operating current	
with 2 current paths in series at DC-1 — at 24 V rated value 35 A — at 110 V rated value 35 A with 3 current paths in series at DC-1 — at 24 V rated value 35 A with 3 current path at DC-3 at DC-5 — at 110 V rated value 20 A — at 110 V rated value 35 A Operating current at 1 current path at DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 25 A with 2 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 35 A Operating power at AC-1 — at 400 V rated value 26 kW at AC-2 at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	at 1 current path at DC-1	
with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 110 V rated value — at 24 V rated value — at 20 A — at 110 V rated value — at 110 V rated value — at 110 V rated value — at 24 V rated value — at 40 V rated value 15 A — perating power at AC-1 — at 400 V rated value 11 kW at AC-3 — at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	— at 24 V rated value	35 A
- at 24 V rated value 35 A with 3 current paths in series at DC-1 - at 24 V rated value 35 A Operating current at 1 current path at DC-3 at DC-5 - at 24 V rated value 20 A - at 110 V rated value 20 A with 2 current paths in series at DC-3 at DC-5 - at 110 V rated value 15 A with 2 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 100 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 100 V rated value 35 A Operating power at AC-1 - at 400 V rated value 11 kW at AC-3 - at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	— at 110 V rated value	4.5 A
with 3 current paths in series at DC-1 — at 24 V rated value 35 A — at 110 V rated value 35 A Operating current at 1 current path at DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 25 A with 2 current paths in series at DC-3 at DC-5 — at 110 V rated value 15 A — at 24 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A Operating power at AC-1 — at 400 V rated value 26 kW at AC-2 at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	with 2 current paths in series at DC-1	
with 3 current paths in series at DC-1 — at 24 V rated value 35 A — at 110 V rated value 35 A Operating current at 1 current path at DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 2.5 A with 2 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A Operating power at AC-1 — at 400 V rated value 11 kW at AC-2 at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	— at 24 V rated value	35 A
- at 24 V rated value 35 A - at 110 V rated value 35 A Operating current at 1 current path at DC-3 at DC-5 - at 24 V rated value 20 A - at 110 V rated value 2.5 A with 2 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A Operating power at AC-1 - at 400 V rated value 26 kW at AC-2 at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	— at 110 V rated value	35 A
— at 110 V rated value 35 A Operating current at 1 current path at DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 2.5 A with 2 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A Operating power at AC-1 — at 400 V rated value 26 kW at AC-2 at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	with 3 current paths in series at DC-1	
Operating current at 1 current path at DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 2.5 A with 2 current paths in series at DC-3 at DC-5 — at 110 V rated value 15 A — at 24 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A — at 24 V rated value 35 A Operating power at AC-1 — at 400 V rated value 11 kW at AC-2 at 400 V rated value 11 kW power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	— at 24 V rated value	35 A
at 1 current path at DC-3 at DC-5 — at 24 V rated value 2.5 A with 2 current paths in series at DC-3 at DC-5 — at 110 V rated value 15 A — at 24 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A Operating power at AC-1 — at 400 V rated value 26 kW at AC-2 at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor 1.6 W Control circuit/ Control: Type of voltage of the control supply voltage AC	— at 110 V rated value	35 A
- at 24 V rated value 2.5 A with 2 current paths in series at DC-3 at DC-5 - at 110 V rated value 15 A - at 24 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 - at 110 V rated value 35 A Operating power at AC-1 - at 400 V rated value 26 kW at AC-2 at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	Operating current	
 at 110 V rated value with 2 current paths in series at DC-3 at DC-5 at 110 V rated value at 24 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 at 110 V rated value 35 A at 24 V rated value 35 A Operating power at AC-1 at 400 V rated value at AC-2 at 400 V rated value at AC-3 at 400 V rated value at AC-3 at 400 V for rated value of the operating current per conductor 1.6 W Control circuit/ Control: Type of voltage of the control supply voltage AC 	at 1 current path at DC-3 at DC-5	
with 2 current paths in series at DC-3 at DC-5 — at 110 V rated value 15 A — at 24 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A — at 24 V rated value 35 A Operating power at AC-1 — at 400 V rated value 26 kW at AC-2 at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	— at 24 V rated value	20 A
 at 110 V rated value at 24 V rated value 35 A with 3 current paths in series at DC-3 at DC-5 at 110 V rated value 35 A at 24 V rated value 35 A Operating power at AC-1 at 400 V rated value at AC-2 at 400 V rated value at AC-3 at 400 V rated value at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC 	— at 110 V rated value	2.5 A
 at 24 V rated value with 3 current paths in series at DC-3 at DC-5 at 110 V rated value 35 A at 24 V rated value 35 A Operating power at AC-1 at 400 V rated value at AC-2 at 400 V rated value at AC-3 at 400 V rated value at 400 V rated value at AC-3 at 400 V rated value at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	with 2 current paths in series at DC-3 at DC-5	
with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 35 A — at 24 V rated value 35 A Operating power at AC-1 — at 400 V rated value 26 kW at AC-2 at 400 V rated value 11 kW at AC-3 — at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor 1.6 W Control circuit/ Control: Type of voltage of the control supply voltage AC	— at 110 V rated value	15 A
 at 110 V rated value at 24 V rated value 35 A Operating power at AC-1 at 400 V rated value at AC-2 at 400 V rated value at AC-3 at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC 	— at 24 V rated value	35 A
- at 24 V rated value 35 A Operating power at AC-1 - at 400 V rated value 26 kW at AC-2 at 400 V rated value 11 kW at AC-3 - at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor 1.6 W Control circuit/ Control: Type of voltage of the control supply voltage AC	with 3 current paths in series at DC-3 at DC-5	
Operating power at AC-1 — at 400 V rated value at AC-2 at 400 V rated value 11 kW at AC-3 — at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	— at 110 V rated value	35 A
at AC-1 — at 400 V rated value 26 kW at AC-2 at 400 V rated value 11 kW at AC-3 — at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor 1.6 W Control circuit/ Control: Type of voltage of the control supply voltage AC	— at 24 V rated value	35 A
- at 400 V rated value at AC-2 at 400 V rated value at AC-3 - at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage 26 kW 11 kW 1.6 W	Operating power	
at AC-2 at 400 V rated value at AC-3 — at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	at AC-1	
at AC-3 — at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	— at 400 V rated value	26 kW
- at 400 V rated value 11 kW Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor 1.6 W Control circuit/ Control: Type of voltage of the control supply voltage AC	at AC-2 at 400 V rated value	11 kW
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	at AC-3	
operating current per conductor Control circuit/ Control: Type of voltage of the control supply voltage AC	— at 400 V rated value	11 kW
Type of voltage of the control supply voltage AC		1.6 W
	Control circuit/ Control:	
Control supply voltage at AC	Type of voltage of the control supply voltage	AC
	Control supply voltage at AC	

at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
Control supply voltage frequency 1 rated value	50 Hz
Control supply voltage frequency 2 rated value	60 Hz
Operating range factor control supply voltage rated value of magnet coil at AC	
at 50 Hz	0.8 1.1
at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	64 V·A
Inductive power factor with closing power of the coil	0.72
Apparent holding power of magnet coil at AC	8.4 V·A
Inductive power factor with the holding power of the coil	0.24
Auxiliary circuit:	
Number of NC contacts	
for auxiliary contacts	
— instantaneous contact	0
Number of NO contacts	
for auxiliary contacts	
— instantaneous contact	0
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
at 230 V rated value	6 A
at 400 V rated value	3 A
Operating current at DC-12	
at 60 V rated value	6 A
at 110 V rated value	3 A
at 220 V rated value	1 A
Operating current at DC-13	
at 24 V rated value	10 A
at 60 V rated value	2 A
at 110 V rated value	1 A
at 220 V rated value	0.3 A
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Short-circuit protection	
Design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gL/gG: 63 A
— with type of assignment 2 required	fuse gL/gG: 35 A

for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
Installation/ mounting/ dimensions:	
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Side-by-side mounting	Yes
Height	85 mm
Witd>	61 mm
Depth	91 mm
Required spacing	
for grounded parts	
— at the side	6 mm
Connections/Terminals:	
Type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections	
for main contacts	
— solid	2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 2x 10 mm²
— single or multi-stranded	2x (1 2,5 mm²), 2x (2,5 6 mm²), max. 2x 10 mm²
— finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²)
at AWG conductors for main contacts	2x (20 16), 2x (18 14), 1x 12
Type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG conductors for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12