

Model

Designation	SC12/12G	220-240V/50Hz 1~	Sales code:	104G8280
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a
Oil viscosity	22cST	Displacement	25,74cm ³ / 1,57cu.in
Oil quantity	1238cm ³ / 41,9fl.oz	Compressors on pallet	18
Refr. charge - tech. limit	2200g / 77,6oz		
Free gas volume comp.	3020cm ³ / 102,1fl.oz		
Weight	28kg / 61,7lbs		
Motor protection	1# internal		
Winding resistance main	6,9Ω (at 25°C)		
Winding resistance aux	11Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	135°C / 275°F		



General - Configurations with SC12/12G

	Conf. 1
Motorconfiguration	CSIR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	187-254V
Approvals	CCC, VDE
Starting torque	HST
Note	- / -

Applications with SC12/12G

	Conf. 1
Refrigerant	R134a
Application	LBP+MBP+HBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with SC12/12G

	Conf. 1
Starting device type	relay
Run capacitor	- / -
Start capacitor	80μF
LRA (locked rotor amps / 4s)	2x 23,4A
RLA (rated load amps / 1s)	2x 4,3A
Cut in current	2x 23,4A

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Pergudangan Duta Niaga No. 9BL/BK
 Jl. Halim Perdana Kusuma
 Jurumudi Baru, Benda – Tangerang 15124

Telpon: (021) 80627021 , (021) 55787961
 WhatsApp: 085722611888 (Chat Only)
 Email : sales@polarin.co.id

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Configuration

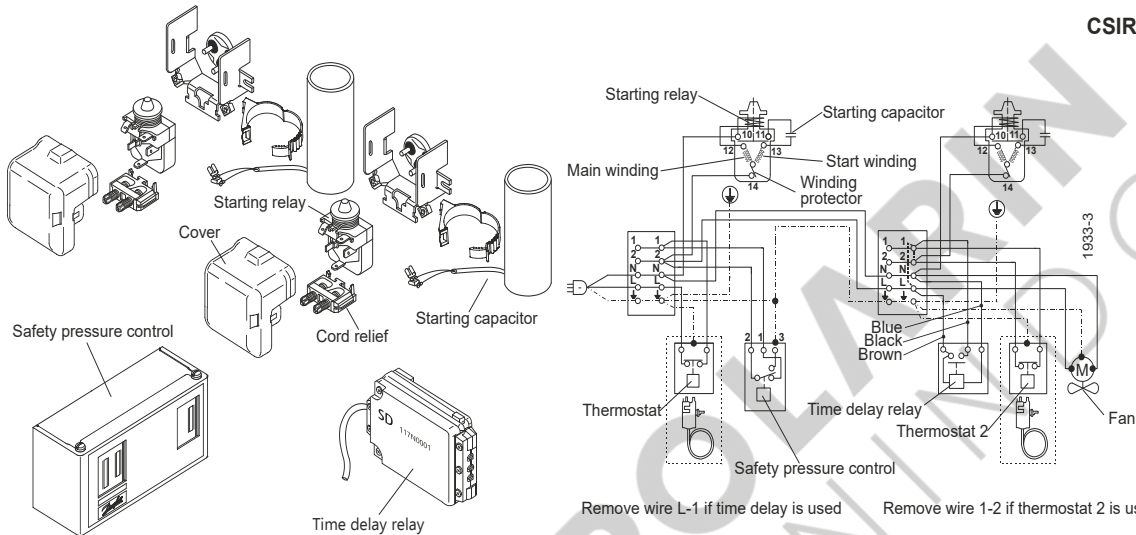
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Power supply (nominal)	220-240V/50Hz 1~
Refrigerant	R134a
Application	LBP+MBP+HBP
Voltage range	187-254V
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Ambient/ machine room temperatures minimum /maximum

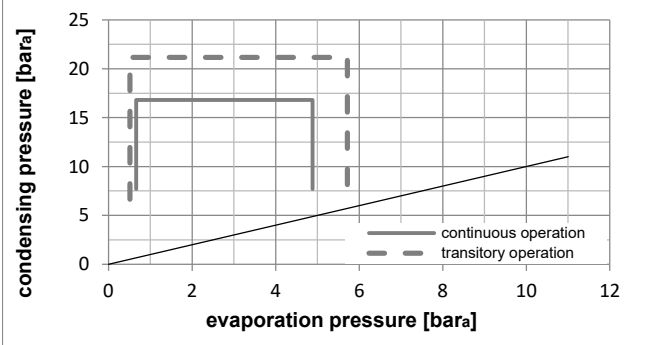
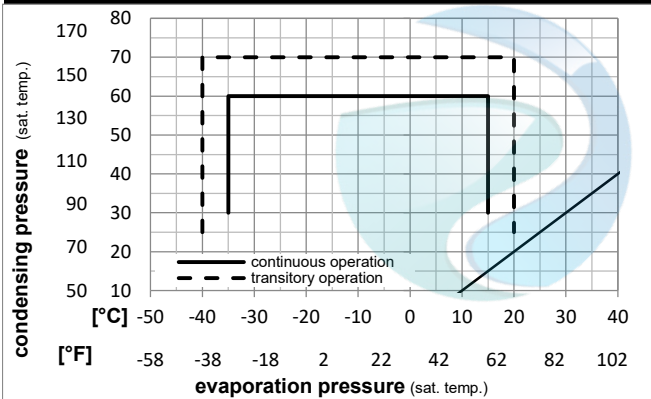
Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s

Operation Limits

Electrical accessories / wiring diagram

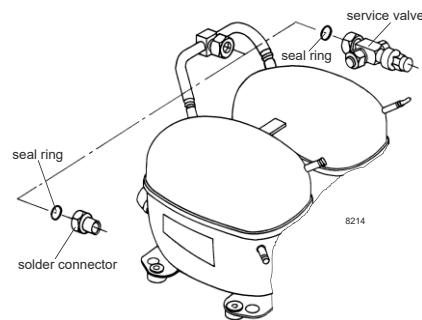


Operation pressure range



Components

a2	assy. relay	117U6003
c	start capacitor (80μF)	117U5017
d	cord relief	103N1004
b	plastic cover	103N2009
.	Check valve (to be used with time-delay relay)	020-1014
.	Service valve 12mm	118-7350
.	Solder connector (alternative) 12 mm	104B0584
.	Seal ring for service valve and solder conn.	118-3638



Model

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Optimization + standard conditions

R134a, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE

	Evaporating pressure (saturation temperature)				Cooling capacity	COP	EER	P1	Power consumption			ASHRAE
	pe	pc	RGT	Tliq					I	Ref. mass flow	m	
	[°C]	[°C]	[°C]	[°C]	[W]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]		
	-23	54	32	32	495,1	1,03	3,52	480,7	3,74	9,61	ASHRAE LBP	
	[°F]											
	-10	130	90	90								
	[°C]	-7	54	35	46	1230,0	1,60	5,47	767,8	4,67	ASHRAE MBP	
	[°F]	20	130	95	115							
					2340,8	2,29	7,81	1023,5	5,67	51,93	ASHRAE HBP	
	[°C]	7,2	54	35	46	2340,8	2,29	7,81	1,97			
	[°F]	45	130	95	115	7994	2014,5	2,29	7,81	1,97		
	[°C]	-35	40	20	40	246,5	0,75	2,55	329,9	3,45	EN12900 LBP	
	[°F]	-31	104	68	104	842	212,2	0,75	2,55	0,64		
	[°C]	-10	45	20	45	1094,3	1,61	5,51	678,5	4,30	EN12900 MBP	
	[°F]	14	113	68	113	3737	941,8	1,61	5,51	1,39		
	[°C]	5	50	20	50	1989,5	2,10	7,16	949,4	5,34	EN12900 HBP	
	[°F]	41	122	68	122	6795	1712,2	2,10	7,16	1,80		

Performance tables

R134a, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE

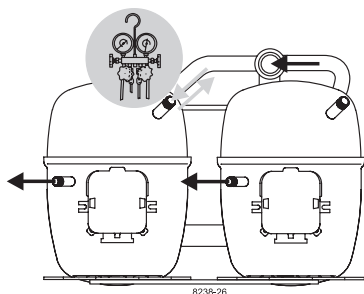
	pe		Cooling capacity			COP	EER	P1	I	m	
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]						
[°C / °F]	-35	-31	205,2	701	176,6	0,65	2,21	0,56	317,0	3,38	4,43
cond. pressure	-25	-13	469,5	1603	404,0	1,03	3,51	0,89	456,2	3,67	10,17
pc= 45/113	-15	5	871,0	2975	749,6	1,44	4,93	1,24	602,9	4,06	18,99
return gas temp.	-10	14	1135,3	3877	977,1	1,67	5,71	1,44	678,5	4,30	24,85
RGT= 32/90	0	32	1815,5	6200	1562,4	2,18	7,44	1,88	833,2	4,85	40,15
liquid temp	5	41	2241,0	7653	1928,6	2,46	8,39	2,11	911,9	5,16	49,89
Tliq= 45/113	15	59	3287,1	11226	2828,9	3,07	10,48	2,64	1071,0	5,87	74,46
[°C / °F]	-35	-31	129,2	441	111,2	0,44	1,49	0,38	295,7	3,25	3,08
cond. pressure	-25	-13	349,9	1195	301,1	0,77	2,63	0,66	453,5	3,66	8,37
pc= 55/131	-15	5	696,0	2377	599,0	1,12	3,82	0,96	622,3	4,17	16,76
return gas temp	-10	14	928,2	3170	798,8	1,31	4,46	1,12	710,2	4,47	22,44
RGT= 32/90	0	32	1535,1	5243	1321,1	1,72	5,88	1,48	892,2	5,14	37,55
liquid temp	5	41	1919,6	6556	1652,0	1,95	6,65	1,68	985,9	5,52	47,30
Tliq= 55/131	15	59	2874,6	9817	2473,9	2,44	8,34	2,10	1177,5	6,35	72,20

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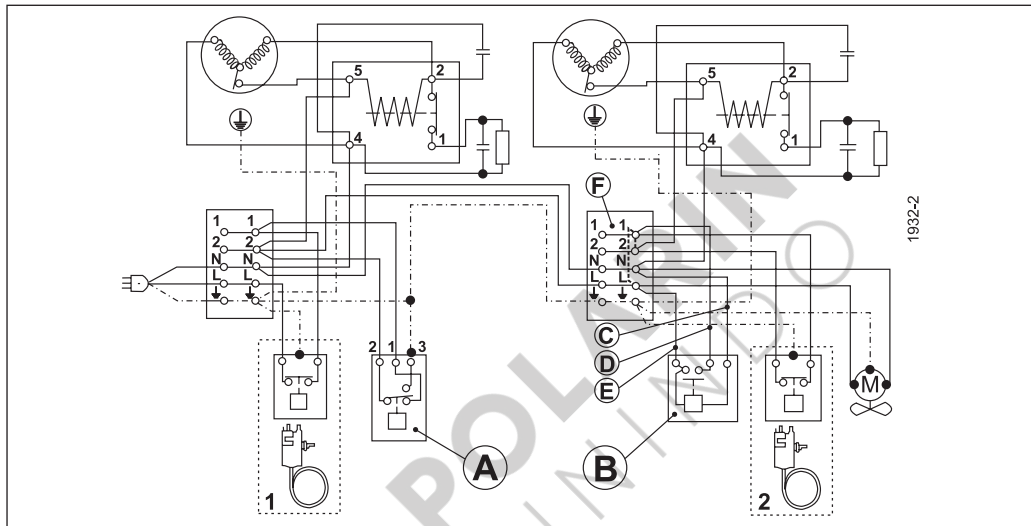
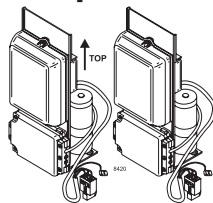
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SC Twin Compressors



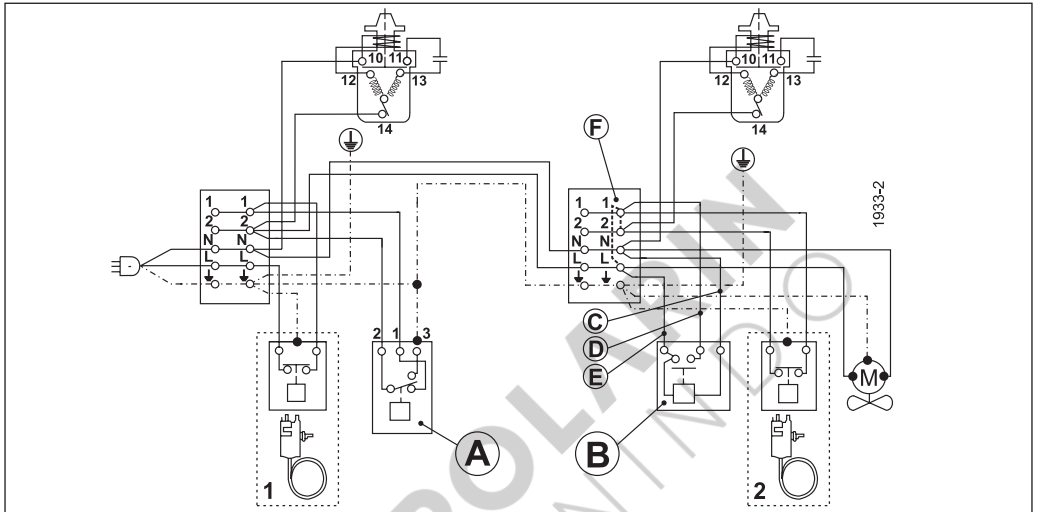
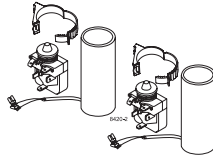
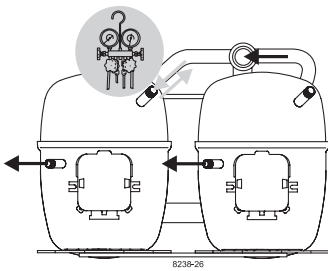
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	A	B	C	D	E	F	
ENGLISH	Safety pressure control	Time delay relay	Blue	Black	Brown	Remove wire L-1 if time delay is used	Remove wire 1-2 if thermostat 2 is used
中文	安全压力控制	延时继电器	蓝	黑	棕	若延时继电器使用, 线L-1不使用	若温控器2使用, 线1-2不使用
Русский	Предохранительное реле давления	Реле задержки времени	Синий	Чёрный	Коричневый	Отсоедините провод L-1, если используется реле задержки времени	Отсоедините провод 1-2, если используется термостат 2
DEUTSCH	Sicherheitsdruckschalter	Zeitrelais (verzögernd)	Blau	Schwarz	Braun	Bei Benutzung der Anlaufverzögerung Brücke L-1 entfernen	Bei Benutzung von Thermostat 2 Brücke 1-2 entfernen
FRANÇAIS	Pressostat	Relais de temporisation	Bleu	Noir	Marron	Supprimer la connection L-1 si le relais de temporisation est utilisé	Supprimer la connection 1-2 si thermostat 2 est utilisé
ESPAÑOL	Presostato de seguridad	Relé de retardo	Azul	Negro	Marrón	Quitar cable L-1, si se utiliza un relé de retardo	Quitar cable 1-2, si se utiliza el termostato 2
ITALIANO	Pressostato	Relè di ritardo avviamento	Blu	Nero	Marrone	Eliminare il cavo L-1 se è utilizzato il ritardatore	Eliminare il cavo 1-2 se è utilizzato il termostato 2
NEDERLANDS	Pressostaat	Tijdvertraging-relais	Blauw	Zwart	Bruin	Verwijder draad L-1 indien tijdvertraging wordt toegepast	Verwijder draad 1-2 indien thermostaat wordt toegepast
DANSK	Sikkerhedspressostat	Tidsforsinkel-sesrelæ	Blå	Sort	Brun	Ved tidsforsinkel-se fjernes ledning L-1	Ved termostat 2 fjernes ledning 1-2
SVENSKA	Säkerhetspressostat	Tidsfördröjningsrelä	Blå	Svart	Brun	Vid anslutning av tidsfördröjningsrelä avlägsnas bygling L-1	Vid anslutning av termostat 2 avlägsnas bygling 1-2

SC Twin Compressors



	A	B	C	D	E	F	
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Русский	Предохранительное реле давления	Реле задержки времени	Синий	Чёрный	Коричневый	Отсоедините провод L-1, если используется реле задержки времени	Отсоедините провод 1-2, если используется термостат 2
DEUTSCH	Sicherheitsdruckschalter	Zeitrelais (verzögernd)	Blau	Schwarz	Braun	Bei Benutzung der Anlaufverzögerung Brücke L-1 entfernen	Bei Benutzung von Thermostat 2 Brücke 1-2 entfernen
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ESPAÑOL	Presostato de seguridad	Relé de retardo	Azul	Negro	Marrón	Quitar cable L-1, si se utiliza un relé de retardo	Quitar cable 1-2, si se utiliza el termostato 2
ITALIANO	Pressostato	Relè di ritardo avviamento	Blu	Nero	Marrone	Eliminare il cavo L-1 se è utilizzato il ritardatore	Eliminare il cavo 1-2 se è utilizzato il termostato 2
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DANSK	Sikkerhedspressostat	Tidsforsinkelserelæ	Blå	Sort	Brun	Ved tidsforsinkelse fjernes ledning L-1	Ved termostat 2 fjernes ledning 1-2
SVENSKA	Säkerhetspressostat	Tidsfördröjningsrelä	Blå	Svart	Brun	Vid anslutning av tidsfördröjningsrelä avlägsnas bygling L-1	Vid anslutning av termostat 2 avlägsnas bygling 1-2

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