

Single Pack SC12/12G 220-240V 50Hz CSIR

Single pack code number: **195B3255**

Position	Title	Code	Amount
1	Compressor SC12/12G	104G8280	1
2	Starting relay	117U6003	2
3	Starting capacitor (80µF 220V, 6.3mm)	117U5017	2
4	Cord relief	103N1004	2
5	Cover	103N2009	2
6	Bolt joint for one compressor M6 ø16mm	118-1917	2

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

Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a
Oil viscosity	22cST	Displacement	25,74cm³ / 1,57cu.in
Oil quantity	1238cm³ / 41,9fl.oz	Compressors on pallet	18
Refr. charge - tech. limit	2200g / 77,6oz		
Free gas volume comp.	3020cm³ / 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

Model

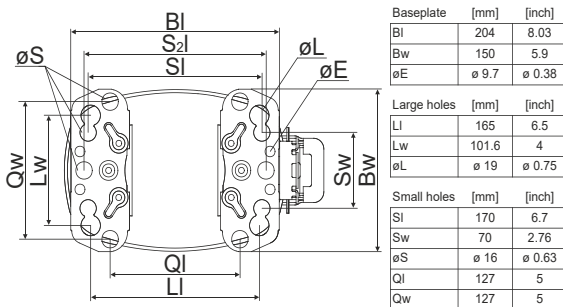
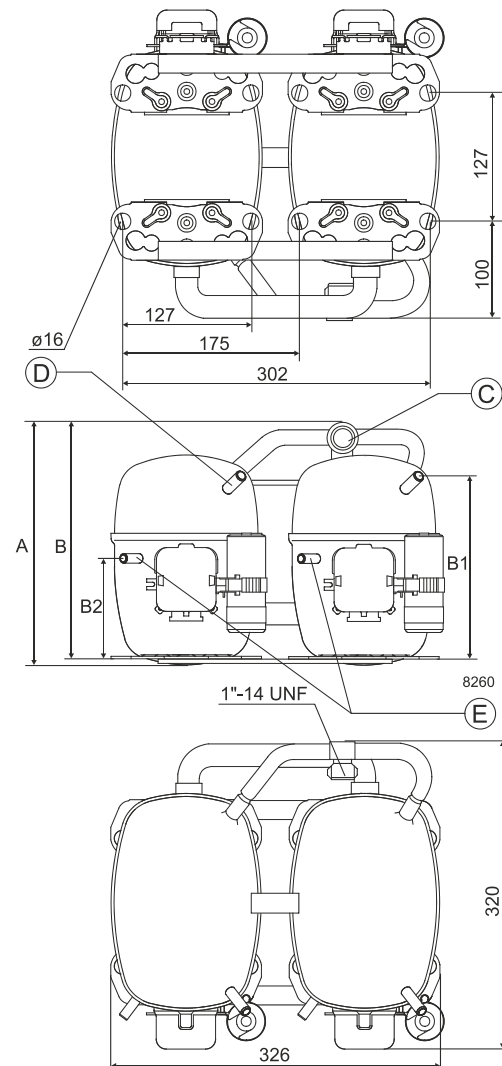
Designation	SC12/12G	220-240V/50Hz 1~	Sales code:	104G8280
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Compressor dimensions

Housing	A Height	249mm / 9,8in
	B Height	244mm / 9,61in
	B1	183mm / 7,2in
	B2	100mm / 3,94in

Connectors		Suction C	Discharge E	Process D
Diameter [mm]		øi 15,21-15,37	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside) [in]		øi 0,6-0,61	øi 0,24-0,25	øi 0,24-0,25
Material		steel	copper	copper
Horizontal angle	±2°	0°	37°	37°
Vertical angle	±2°	0°	0°	0°
Position l/h/w [mm]		0/0/0	0/0/0	0/0/0
	[in]	0/0/0	0/0/0	0/0/0
Straight tube l. [mm]		10	12	12
	[in]	0,4	0,5	0,5

Compressor fixation

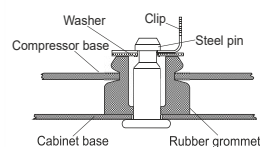
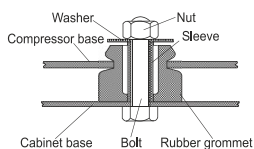


Mounting accessories

Mounting accessories	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	
Bolt joint ø1/4" ø19mm	118-1949	
Snap-on ø7,3 ø16mm	118-1947	118-1919

Bolt joint

Snap-on

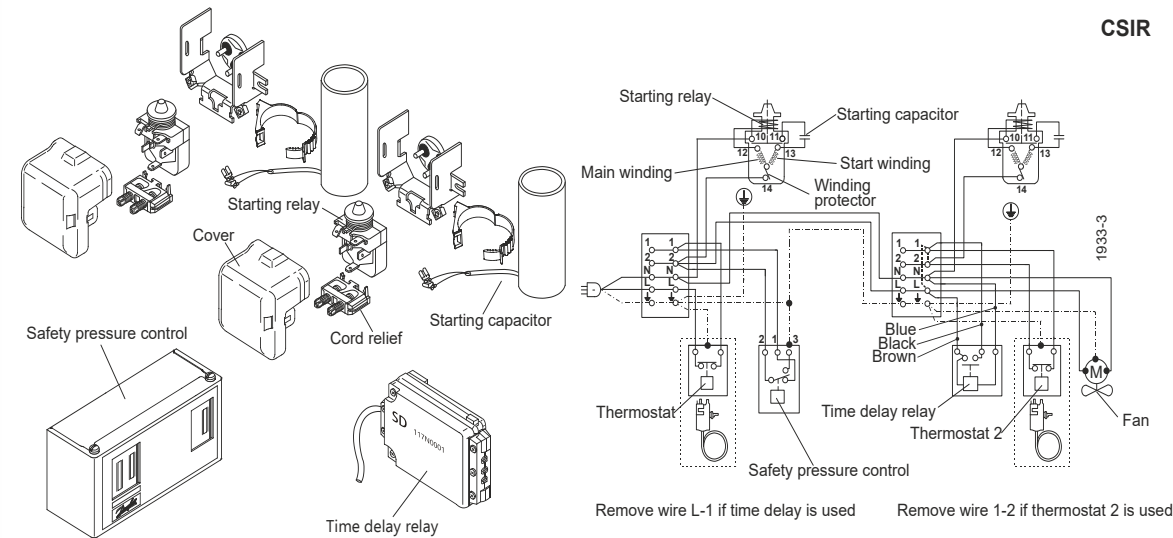


Application notes

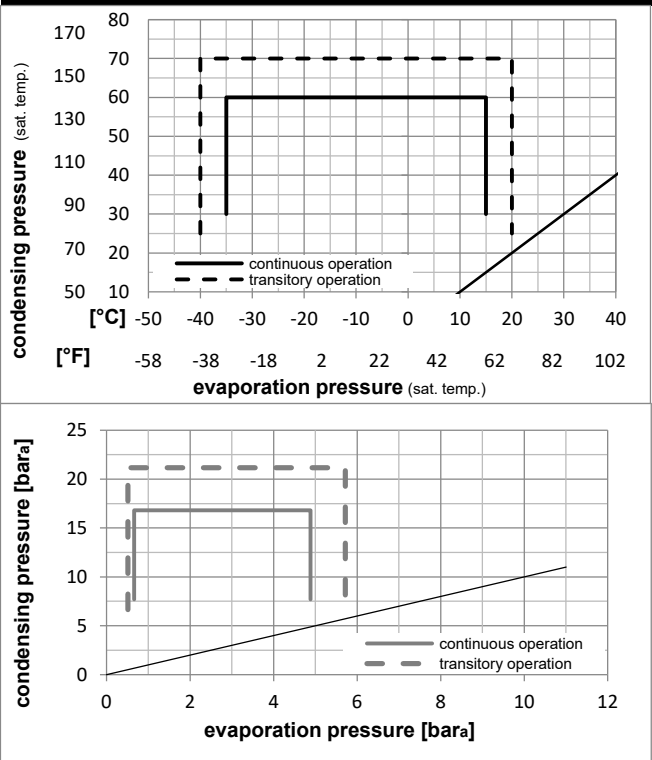
Provision for PE Grounding is located at the PE Stamp on the compressor

Twin should be used with a time-delay relay

Model			
Designation	SC12/12G	220-240V/50Hz	Conf. 1
			Sales code: 104G8280
Configuration		Ambient/ machine room temperatures minimum /maximum	
Motorconfiguration	CSIR	Ambient temperature range:	10 - 43°C / 50 - 110°F
Power supply (nominal)	220-240V/50Hz 1~	Machine room temperature range:	10 - 48°C / 50 - 119°F
Refrigerant	R134a	Compressor cooling:	fan 3m/s
Application	LBP+MBP+HBP		
Voltage range	187-254V		
Starting torque	HST		
Approvals	CCC, VDE,		
Electrical accessories / wiring diagram			

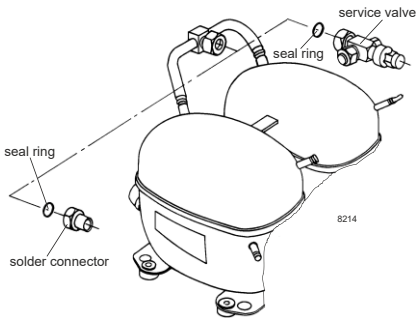


Operation pressure range



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

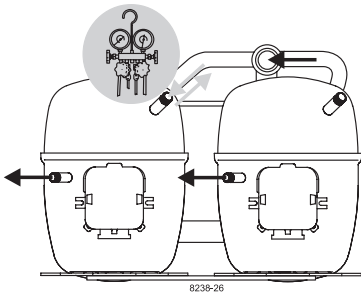
R134a, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE

Evaporating pressure (saturation temperature) Condensing pressure (saturation temperature) Return gas temp. Liquid temp. Cooling capacity COP EER Power consumption Current consumption Ref. mass flow														
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m	
[°C]	-23	54	32	32	495,1	1691	426,1	1,03	3,52	0,89	480,7	3,74	9,61	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-7	54	35	46	1230,0	4201	1058,6	1,60	5,47	1,38	767,8	4,67	26,84	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	7,2	54	35	46	2340,8	7994	2014,5	2,29	7,81	1,97	1023,5	5,67	51,93	ASHRAE HBP
[°F]	45	130	95	115										
[°C]	-35	40	20	40	246,5	842	212,2	0,75	2,55	0,64	329,9	3,45	5,41	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-10	45	20	45	1094,3	3737	941,8	1,61	5,51	1,39	678,5	4,30	25,62	EN12900 MBP
[°F]	14	113	68	113										
[°C]	5	50	20	50	1989,5	6795	1712,2	2,10	7,16	1,80	949,4	5,34	50,13	EN12900 HBP
[°F]	41	122	68	122										

Performance tables

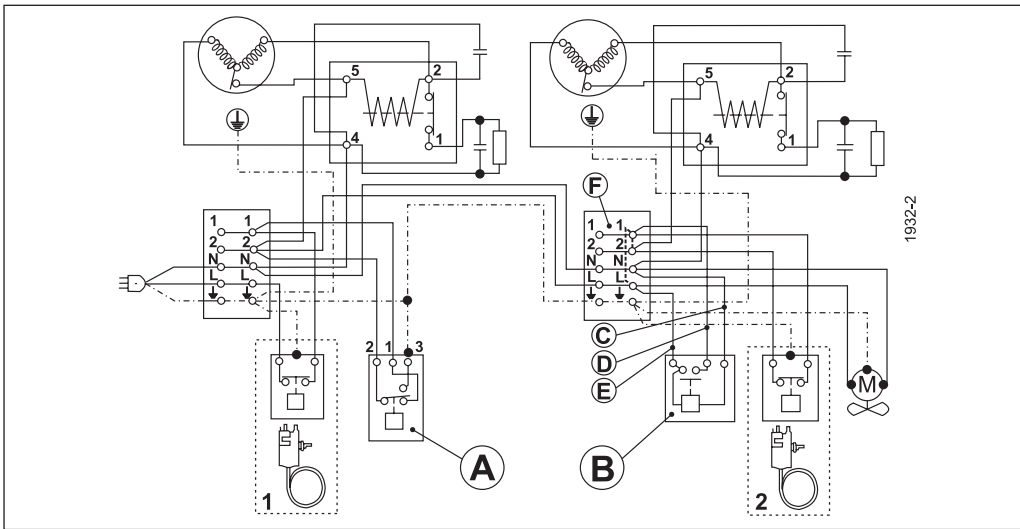
R134a, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE

	pe		Cooling capacity			COP	EER	P1			I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]		[A]	[kg/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

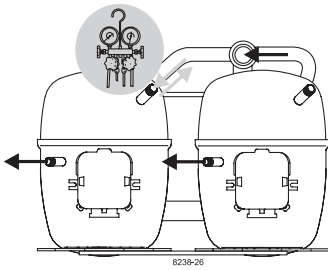


SC Twin Compressors

SECOP

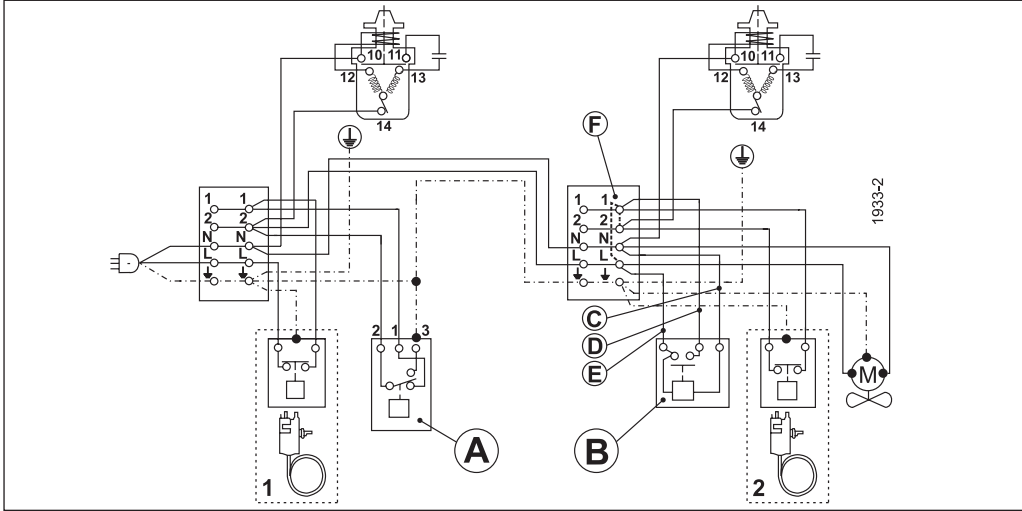
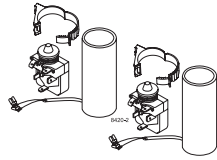


	A	B	C	D	E	F
ENGLISH	Safety pressure control	Time delay relay	Blue	Black	Brown	Remove wire L-1 if time delay is used
中文	安全压力控制	延时继电器	蓝	黑	棕	若延时继电器使用，线L-1不使用
Русский	Предохранительное реле давления	Реле задержки времени	Синий	Чёрный	Коричневый	Отсоедините провод L-1, если используется реле задержки времени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



SC Twin Compressors

SECOP



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DEUTSCH	Sicherheitsdruckschalter	Zeitrelais (verzögernd)	Blau	Schwarz	Braun	Bei Benutzung der Anlaufverzögerung Brücke L-1 entfernen
FRANÇAIS	Pressostat	Relais de temporisation	Bleu	Noir	Marron	Supprimer la connection L-1 si le relais de temporisation est utilisé
ESPAÑOL	Presostato de seguridad	Relé de retardo	Azul	Negro	Marrón	Quitar cable L-1, si se utiliza un relé de retardo
ITALIANO	Pressostato	Relè di ritardo avvia.	Blu	Nero	Marrone	Eliminare il cavo L-1 se è utilizzato il ritardatore
NEDERLANDS	Pressostaat	Tijdvertragingsschakelaar	Blauw	Zwart	Bruin	Verwijder draad L-1 indien tijdvertraging wordt toegepast
DANSK	Sikkerhedspressostat	Tidsforsinkel-sesrelæ	Blå	Sort	Brun	Ved tidsforsinkelse fjernes ledning L-1
SVENSKA	Säkerhetspressostat	Tidsfördröjningsrelä	Blå	Svart	Brun	Vid anslutning av tidsfördröjningsrelä avlägsnas bygling L-1
						Remove wire 1-2 if thermostat 2 is used
						若温控器2使用，线1-2不使用
						Отсоедините провод 1-2, если используется термостат 2
						Bei Benutzung von Thermostat 2 Brücke 1-2 entfernen
						Supprimer la connection 1-2 si thermostat 2 est utilisé
						Quitar cable 1-2, si se utiliza el termostato 2
						Eliminare il cavo 1-2 se è utilizzato il termostato 2
						Verwijder draad 1-2 indien thermostaat wordt toegepast
						Ved termostat 2 fjernes ledning 1-2
						Vid anslutning av termostat 2 avlägsnas bygling 1-2

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