

Single Pack SC15/15G 220-240V 50Hz CSIR

Single pack code number: **195B3082**

Position	Title	Code	Amount
1	Compressor SC15/15G	104G8580	1
2	Starting relay	117U6005	2
3	Starting capacitor (80 μ F 220V, 6.3mm)	117U5017	2
4	Cover	103N2009	2
5	Cord relief	103N1004	2
6	Bolt joint for one compressor M6 \varnothing 16mm	118-1917	2

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Model

Designation	SC15/15G	220-240V/50Hz 1~	Sales code:	104G8580
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a
Oil viscosity	22cST	Displacement	30,56cm ³ / 1,86cu.in
Oil quantity	1238cm ³ / 41,9fl.oz	Compressors on pallet	18
Refr. charge - tech. limit	2200g / 77,6oz		
Free gas volume comp.	2820cm ³ / 95,4fl.oz		
Weight	28kg / 61,7lbs		
Motor protection	1# internal		
Winding resistance main	5,13Ω (at 25°C)		
Winding resistance aux	13,51Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	135°C / 275°F		



General - Configurations with SC15/15G

	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 SC15/15G

	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 SC15/15G

	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	80μF
LRA (locked rotor amps / 4s)	2x 16,2A
RLA (rated load amps / 1s)	2x 3,1A
Cut in current	2x 16,2A

Model

Designation

SC15/15G

220-240V/50Hz 1~

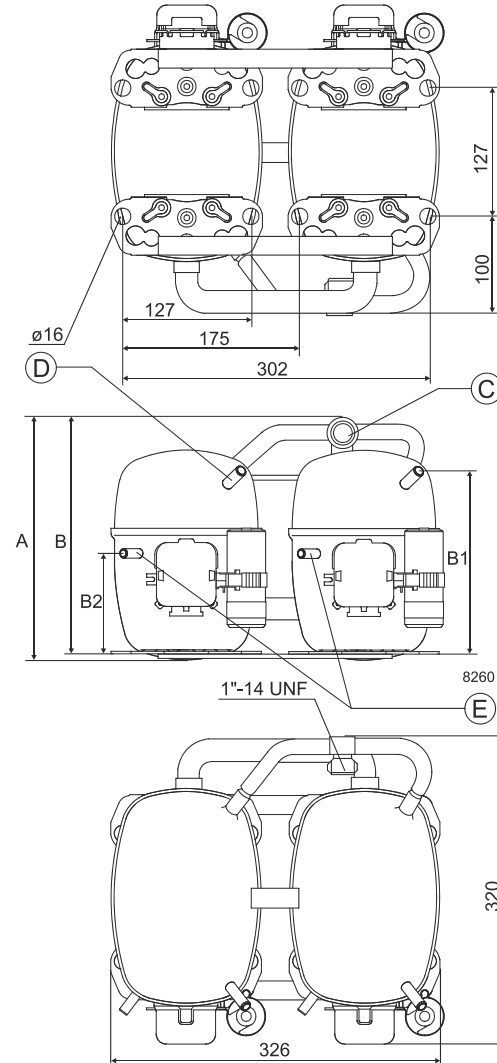
Sales code:

104G8580

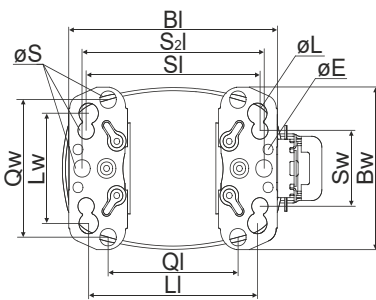
Compressor dimensions

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

Connectors		Suction	Discharge	Process
		C	E	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



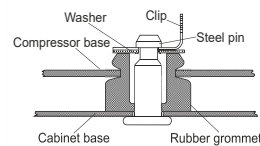
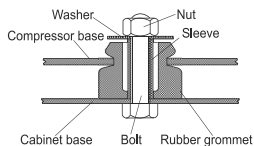
Baseplate	[mm]	[inch]
BI	204	8.03
Bw	150	5.9
øE	ø 9.7	ø 0.38
Large holes		
LI	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75
Small holes		
SI	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63
QI	127	5
Qw	127	5

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	SC15/15G	220-240V/50Hz	Conf. 1	Sales code:	104G8580
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Configuration

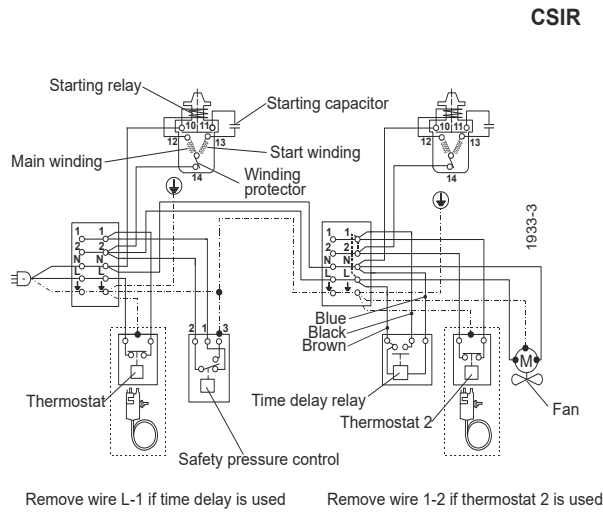
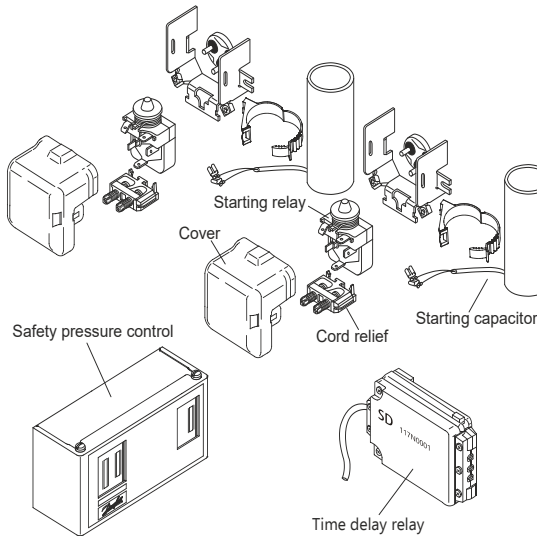
Motorconfiguration	CSIR
Power supply (nominal)	220-240V/50Hz 1~
Refrigerant	R134a
Application	LBP+MBP+HBP
Voltage range	187-254V
Starting torque	HST
Approvals	CCC, VDE,

Ambient/ machine room temperatures minimum /maximum

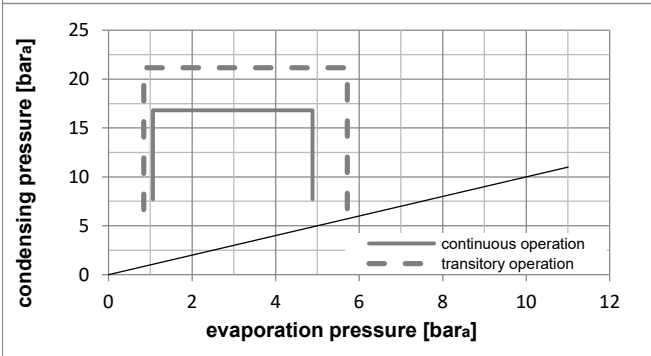
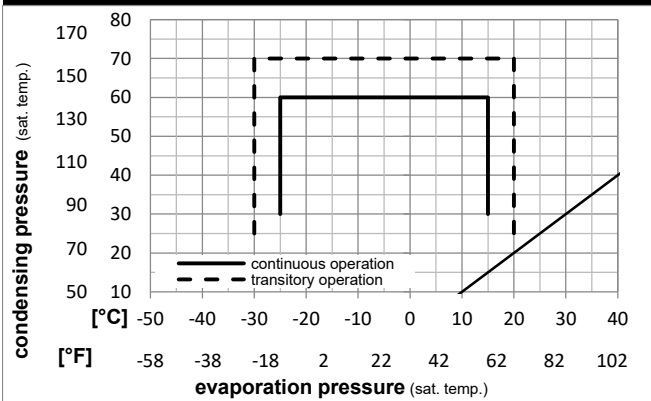
Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s

Operation Limits

Electrical accessories / wiring diagram

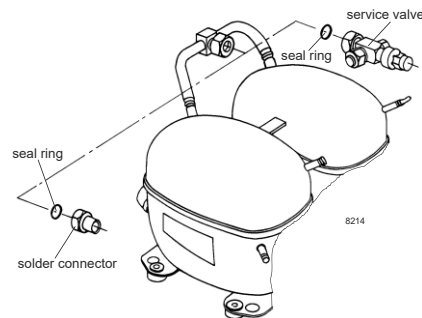


Operation pressure range



Components

a2	relay	117U6005
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

Designation **SC15/15G** **220-240V/50Hz** Conf. 1 Sales code: **104G8580**

Optimization + standard conditions

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

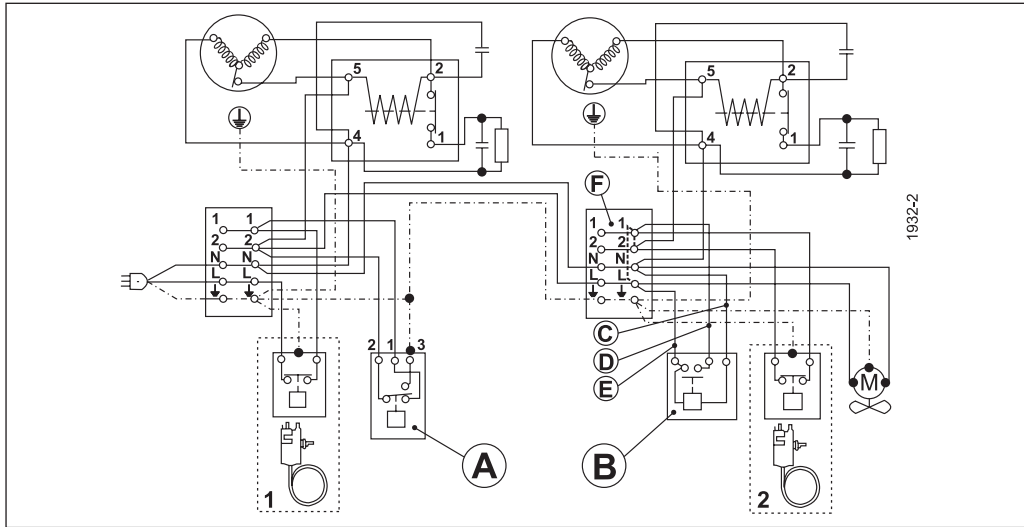
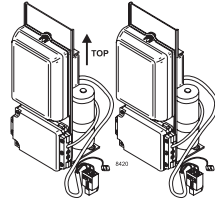
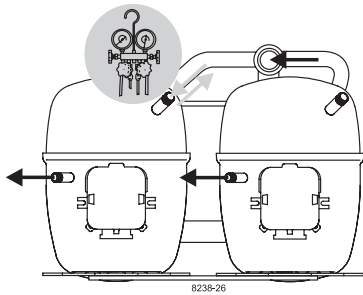
	Evaporating pressure (saturation temperature)				Cooling capacity			COP	EER	P1	Power consumption			ASHRAE	
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]				I	Ref. mass flow	m		
	[°C]	[°C]	[°C]	[°C]				[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
	-23	54	32	32	518,0	1769	445,8	1,00	3,43	0,86	516,3	4,54	10,06	ASHRAE LBP	
	[°F]														
	-10	130	90	90											
	[°C]	-7	54	35	46	1493,1	5099	1285,0	1,57	5,35	1,35	953,8	5,82	32,58	ASHRAE MBP
	[°F]	20	130	95	115										
	[°C]	7,2	54	35	46	2683,6	9165	2309,5	2,20	7,50	1,89	1221,3	7,01	59,53	ASHRAE HBP
	[°F]	45	130	95	115										
	[°C]	-35	40	20	40	191,5	654	164,8	0,80	2,73	0,69	239,9	3,89	4,20	EN12900 LBP
	[°F]	-31	104	68	104										
	[°C]	-10	45	20	45	1301,4	4445	1120,0	1,58	5,41	1,36	821,4	5,31	30,46	EN12900 MBP
	[°F]	14	113	68	113										
	[°C]	5	50	20	50	2303,1	7865	1982,1	2,01	6,87	1,73	1145,2	6,60	58,03	EN12900 HBP
	[°F]	41	122	68	122										

Performance tables

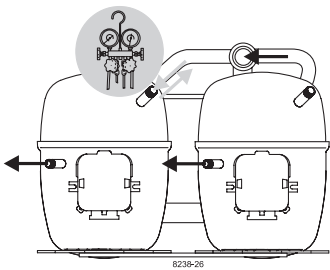
R134a, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE

	pe		Cooling capacity			COP	EER	P1	I	m	
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]						
[°C / °F]	-25	-13	521,5	1781	448,8	1,10	3,76	0,95	473,1	4,37	11,30
cond. pressure	-20	-4	765,6	2615	658,9	1,29	4,39	1,11	595,7	4,67	16,63
pc= 45/113	-10	14	1350,2	4611	1162,0	1,64	5,61	1,41	821,4	5,31	29,55
return gas temp.	-5	23	1706,5	5828	1468,6	1,85	6,31	1,59	923,7	5,66	37,53
RGT= 32/90	0	32	2116,0	7227	1821,1	2,08	7,10	1,79	1018,5	6,02	46,79
liquid temp	5	41	2586,7	8834	2226,2	2,34	7,99	2,01	1105,4	6,39	57,59
Tliq= 45/113	15	59	3743,5	12785	3221,7	2,99	10,20	2,57	1253,8	7,17	84,79
[°C / °F]	-25	-13	328,4	1122	282,6	0,71	2,41	0,61	465,4	4,43	7,85
cond. pressure	-20	-4	580,6	1983	499,6	0,95	3,23	0,81	614,2	4,79	13,92
pc= 55/131	-10	14	1136,8	3882	978,3	1,29	4,42	1,11	879,3	5,57	27,49
return gas temp	-5	23	1456,8	4975	1253,7	1,46	5,00	1,26	994,9	5,98	35,41
RGT= 32/90	0	32	1815,2	6199	1562,2	1,65	5,64	1,42	1098,6	6,40	44,40
liquid temp	5	41	2220,0	7582	1910,5	1,87	6,37	1,61	1190,1	6,84	54,70
Tliq= 55/131	15	59	3200,6	10931	2754,5	2,40	8,19	2,06	1334,7	7,75	80,39

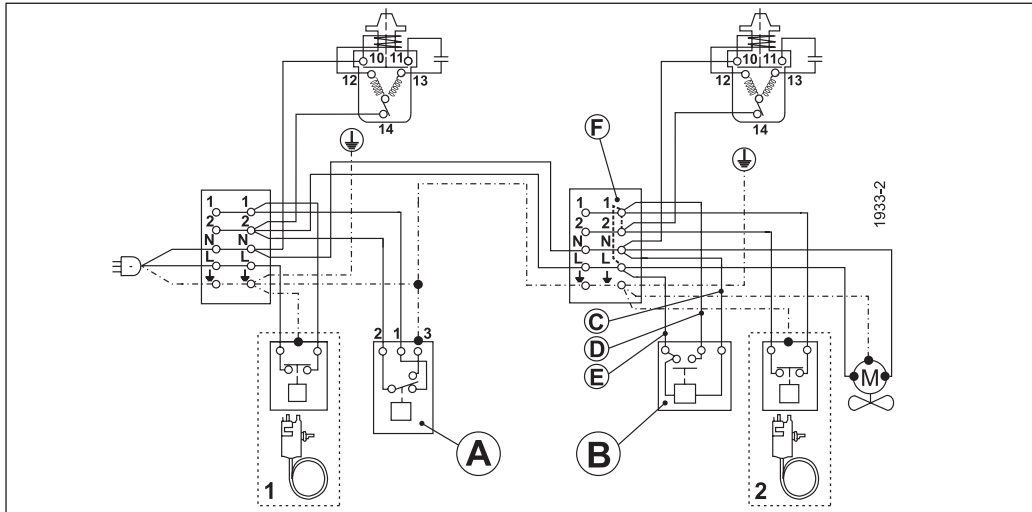
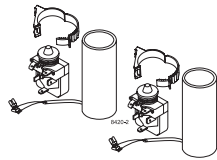
SC Twin Compressors



	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 Anlaßverzögerung 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 avviam.	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	Tidsforsinkelsesrelæ	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 tidfördröjningsrelä avlägsnas bygling L-1	Vid anslutning av termostat 2 avlägsnas bygling 1-2



SC Twin Compressors



	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 avvia.	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 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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