Single
Packs

Single Pack SC18/18G 220-240V 50Hz CSIR

Single pack code number: **195B3083**

Position	Title	Code	Amount
1	Compressor SC18/18G	104G8880	1
2	Starting relay	117U6019	2
3	Starting capacitor (80µF 220V, 6.3mm)	117U5017	2
4	Cover	103N2009	2
5	Cord relief	103N1004	2
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	2

Secop GmbH • Lise-Meitner-Straße 29 • 24941 Flensburg, Germany • Tel: +49 461 4941 0 • **www.secop.com**

Technical Data Twin-Compressor

SECOP

Model

Designation	**SC18/18G**	**220-240V/50Hz 1~**	Sales code:	**104G8880**

Compressor design

Oil type	Polyolester	Refrigerant(s)	**R134a**
Oil viscosity	22cST	Displacement	35,38cm³ / 2,16cu.in
Oil quantity	1238cm³ / 41,9fl.oz	Compressors on pallet	18
Refr. charge - tech. limit	2200g / 77,6oz		
Free gas volume comp.	2920cm³ / 98,7fl.oz		
Weight	28kg / 61,7lbs		
Motor protection	1# internal		
Winding resistance main	3,7Ω (at 25°C)		
Winding resistance aux	14Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	135°C / 275°F		

General - Configurations with SC18/18G

	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 SC18/18G

	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 SC18/18G

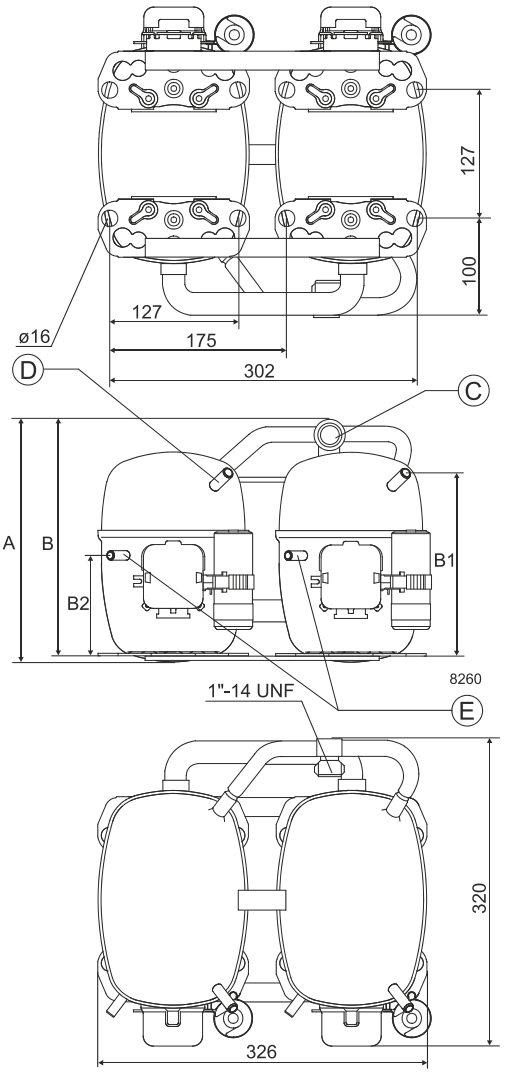
	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	80µF
LRA (locked rotor amps / 4s)	2x 20,43A
RLA (rated load amps / 1s)	2x 3,9A
Cut in current	2x 20,43A

Model

Designation **SC18/18G** **220-240V/50Hz 1~** Sales code: **104G8880**

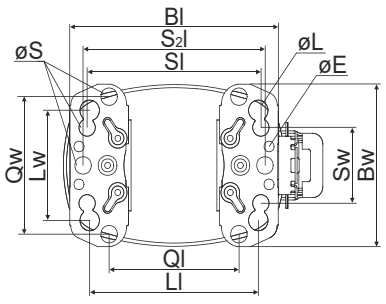
Compressor dimensions

Housing	A Height	259mm / 10,2in
	B Height	254mm / 10in
	B1	193mm / 7,6in
	B2	110mm / 4,33in



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



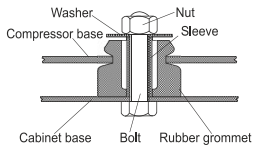
Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	150	5.9
øE	ø 9.7	ø 0.38

Large holes	[mm]	[inch]
Ll	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75

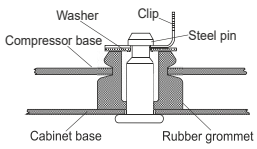
Small holes	[mm]	[inch]
Sl	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63
Ql	127	5
Qw	127	5

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

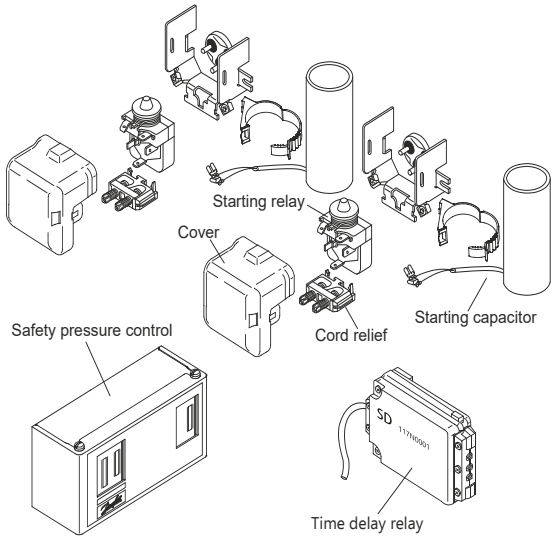
Twin should be used with a time-delay relay

Model

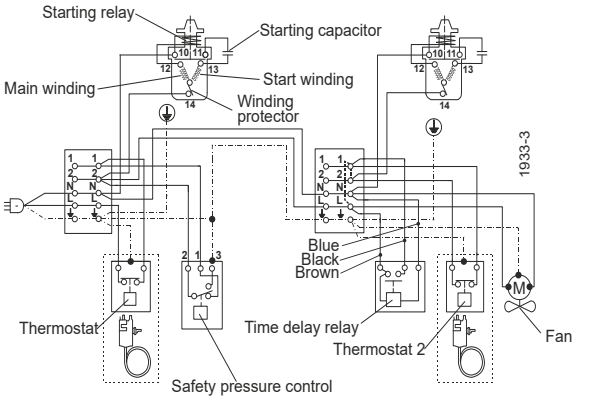
Designation	**SC18/18G**	**220-240V/50Hz**	**Conf. 1**	Sales code:	**104G8880**

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	**Operation Limits**	
Starting torque	HST		
Approvals	CCC, VDE,		

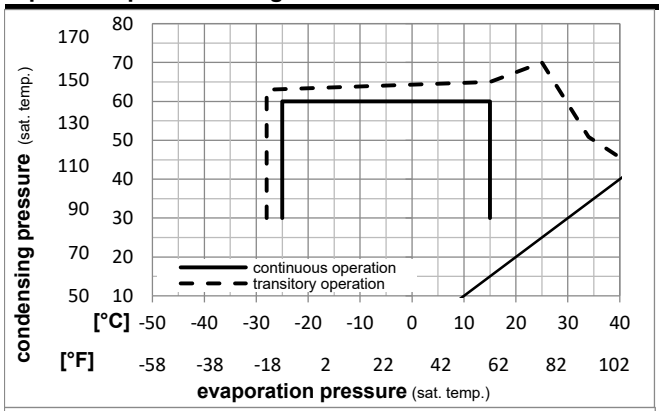
Electrical accessories / wiring diagram

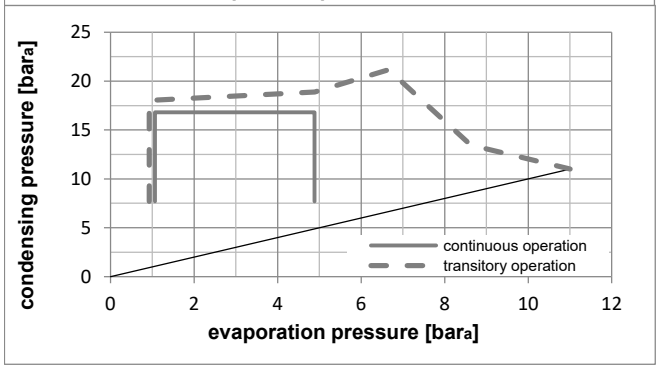


CSIR



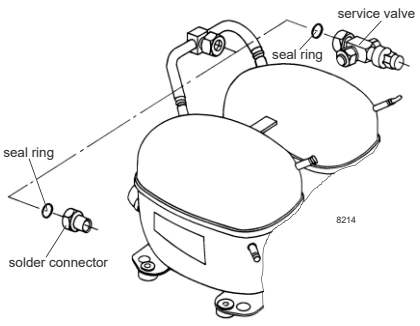
Operation pressure range





Components

a2	relay	117U6019
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 **SC18/18G** **220-240V/50Hz** **Conf. 1** Sales code: **104G8880**

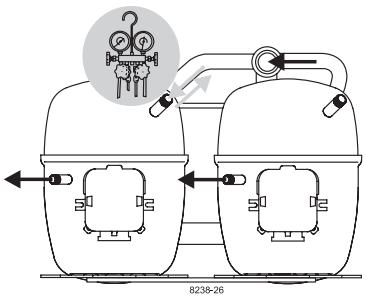
Optimization + standard conditions R134a, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE

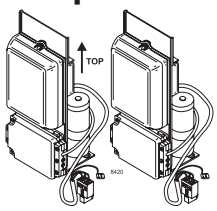
	Evaporating pressure (saturation temperature) pe	Condensing pressure (saturation temperature) pc	Return gas temp. RGT	Liquid temp. Tliq	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	Power consumption P1 [W]	Current consumption I [A]	Ref. mass flow ṁ [kg/h]	
[°C]	-23	54	32	32	780,7	2666	671,9	1,12	3,83	0,96	696,8	5,22	15,16	**ASHRAE LBP**
[°F]	-10	130	90	90										
[°C]	-7	54	35	46	1777,0	6069	1529,3	1,63	5,58	1,41	1088,2	6,33	38,77	**ASHRAE MBP**
[°F]	20	130	95	115										
[°C]	7,2	54	35	46	3227,6	11023	2777,7	2,24	7,65	1,93	1441,3	7,64	71,60	**ASHRAE HBP**
[°F]	45	130	95	115										
[°C]	-35	40	20	40	312,8	1068	269,2	0,74	2,53	0,64	423,0	4,51	6,86	**EN12900 LBP**
[°F]	-31	104	68	104										
[°C]	-10	45	20	45	1527,4	5216	1314,5	1,63	5,58	1,41	935,3	5,83	35,75	**EN12900 MBP**
[°F]	14	113	68	113										
[°C]	5	50	20	50	2697,4	9212	2321,4	2,04	6,96	1,75	1322,8	7,16	67,97	**EN12900 HBP**
[°F]	41	122	68	122										

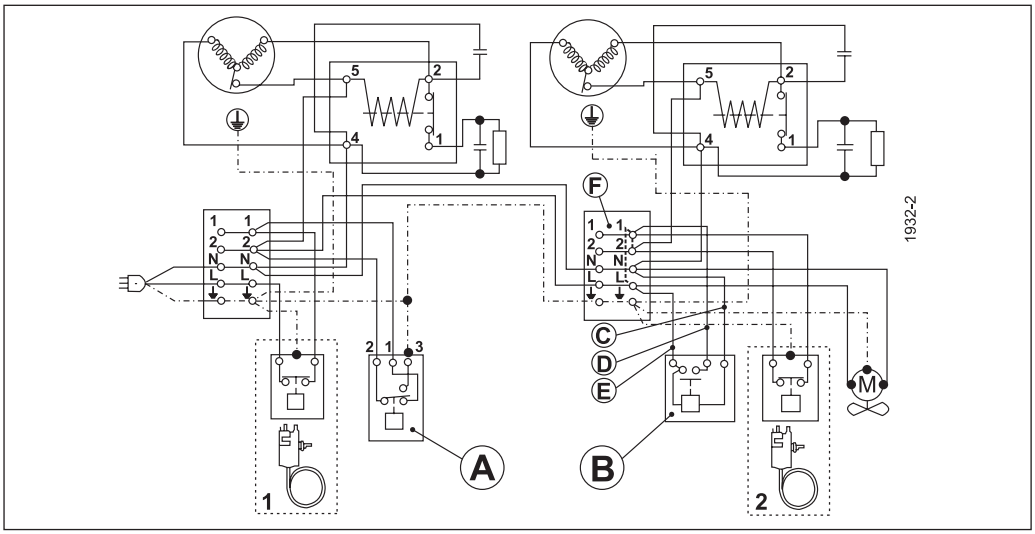
Performance tables R134a, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE

	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]	-25	-13	673,3	2299	579,4	1,08	3,69	0,93	623,3	5,03	14,59
cond. pressure	-20	-4	930,3	3177	800,7	1,28	4,37	1,10	726,8	5,28	20,21
pc= 45/113	-10	14	1584,6	5412	1363,7	1,69	5,79	1,46	935,3	5,83	34,68
return gas temp.	-5	23	1993,2	6807	1715,4	1,91	6,53	1,65	1042,5	6,14	43,83
RGT= 32/90	0	32	2463,8	8414	2120,3	2,14	7,30	1,84	1153,0	6,51	54,49
liquid temp	5	41	3001,9	10252	2583,4	2,37	8,09	2,04	1267,9	6,93	66,83
Tliq= 45/113	15	59	4303,6	14698	3703,8	2,84	9,70	2,44	1515,0	8,01	97,48
[°C / °F]	-25	-13	566,1	1933	487,2	0,86	2,92	0,74	661,7	5,13	13,54
cond. pressure	-20	-4	787,2	2688	677,5	1,01	3,46	0,87	778,1	5,44	18,88
pc= 55/131	-10	14	1368,7	4674	1177,9	1,35	4,61	1,16	1013,8	6,10	33,10
return gas temp	-5	23	1740,5	5944	1497,9	1,53	5,24	1,32	1135,2	6,49	42,31
RGT= 32/90	0	32	2173,8	7424	1870,8	1,72	5,89	1,48	1260,4	6,92	53,17
liquid temp	5	41	2674,5	9134	2301,7	1,92	6,57	1,66	1390,4	7,43	65,90
Tliq= 55/131	15	59	3900,3	13320	3356,6	2,34	7,98	2,01	1669,2	8,68	97,97

SC Twin Compressors

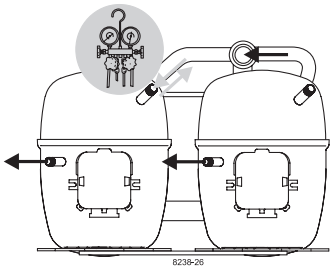


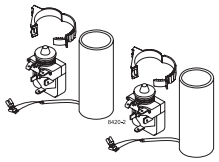


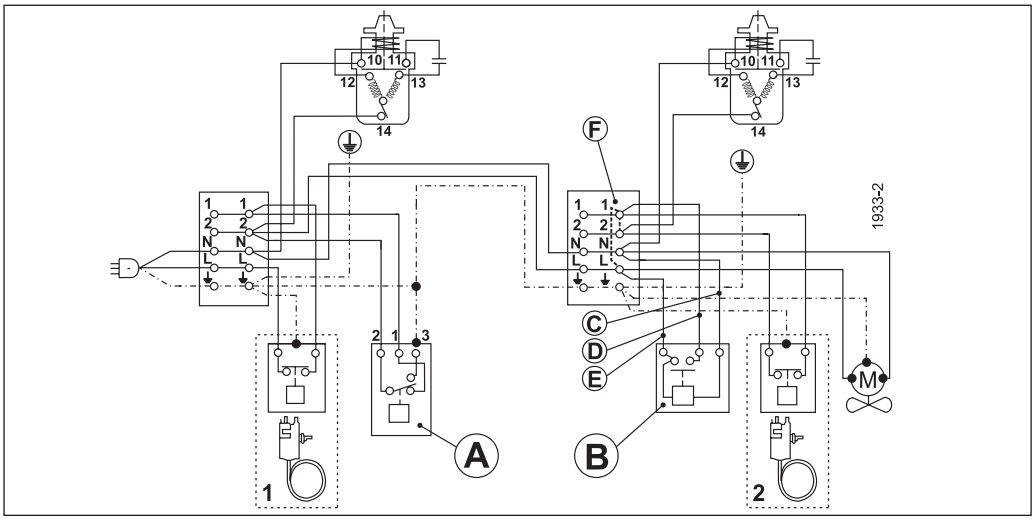


	A	B	C	D	E	F	
ENGLISH	Safety pressure control	Time delay relay	Blue	Black	Brown	Remove wire L-1 if time delay is used	Remove wire 1-2 if thermostat 2 is used
中文	安全压力控制	延时继电器	蓝	黑	棕	若延时继电器使用，线L-1不使用	若温控器2使用，线1-2不使用
Русский	Предохранительное реле давления	Реле задержки времени	Синий	Чёрный	Коричневый	Отсоедините 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	Tijdvertragings 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 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	Tijdvertragings 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