

Secop is the first choice for partners looking for leading-edge refrigeration solutions and a premium customer experience.

Secop delivers advanced refrigeration compressors and controls, providing customers tailored sustainable solutions for light commercial, battery-driven, and special cooling applications.

HERMETIC COMPRESSORS HFC REFRIGERANTS



R134a · R513A | R404A · R452A

208-230V · 60 Hz
220-240V · 50/60 Hz
220-240V · 50 Hz | 200-240 V · 50 Hz

Energy Optimized

Wide Application Range



Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE						Displacement [cm³]	Voltage and frequencies [*dual frequency type with 50/60 Hz]	Compressor cooling cooling (refer to data sheet)				
			LBP rating point -23.3°C / 54.4°C		MBP rating point -6.7°C / 54.4°C		HBP rating point 7.2°C / 54.4°C		Cooling capacity		COP		Cooling capacity					COP			
			-35	-15	-5	0	10	15	[W]	[W/W]	[W]	[W/W]	[W]	[W/W]				[W]	[W/W]	[W]	[W/W]
			[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	[cm³]												
NF7MLX	105F3720	MBP	-	547	851	1039	1503	-	-	682	1.49	1164	2.12	7.27	187-254 V, 50 Hz *	F2					
NL6.1MLX	105F3611	MBP	-	455	711	869	-	-	291	1.14	569	1.61	975	2.31	6.13	187-254 V, 50 Hz *	F2				
SC10CLX	104L2533	L/MBP	130	655	1064	-	-	-	396	1.11	847	1.51	-	-	10.29	198-254 V, 50 Hz *	F2				
SC10MLX	104L2506	MBP	-	722	1127	1380	-	-	-	-	902	1.54	1553	2.18	10.29	187-254 V, 50 Hz *	F2				
SC12CLX	104L2695	LBP	226	1097	-	-	-	-	698	1.23	-	-	-	-	12.87	198-254 V, 60 Hz	F2				
SC12CLX.2	104L2699	LBP	317	1085	-	-	-	-	707	1.27	-	-	-	-	12.87	187-254 V, 60 Hz	F2				
SC12CLX.2	104L2697	LBP	278	899	-	-	-	-	593	1.15	-	-	-	-	12.87	198-254 V, 50 Hz *	F2				
SC12MLX	104L2606	MBP	-	886	1369	1670	-	-	584	1.15	1096	1.56	1873	2.18	12.87	187-254 V, 50 Hz *	F2				
SC15CLX	104L2854	LBP	235	1213	-	-	-	-	774	1.23	-	-	-	-	15.28	198-254 V, 60 Hz	F2				
SC15CLX.2	104L2897	LBP	413	1337	-	-	-	-	882	1.33	-	-	-	-	15.28	187-254 V, 60 Hz	F2				
SC15MLX.2	104L2803	MBP	-	1233	1896	2320	-	-	841	1.20	1518	1.56	2617	2.16	15.28	187-254 V, 60 Hz	F2				
SC18CLX.2	104L2195	LBP	520	1554	-	-	-	-	1114	1.39	-	-	-	-	17.69	187-254 V, 60 Hz	F2				
SC18MLX	104L2138	MBP	-	1521	2328	2839	-	-	1033	1.18	1866	1.47	3186	1.99	17.69	187-254 V, 60 Hz	F2				
SC12/12CLX	104L4034	LBP	450	2182	-	-	-	-	1389	1.23	-	-	-	-	25.74	198-254 V, 60 Hz	F2				
GS21CLX	107B0506	LBP	584	1918	-	-	-	-	1258	1.35	-	-	-	-	21.20	187-254 V, 60 Hz	F2				
GS21MLX	107B0509	MBP	-	2043	3134	3819	-	-	1345	1.46	2513	1.86	4293	2.55	21.20	187-254 V, 60 Hz	F2				
GS26CLX	107B0505	LBP	719	2114	-	-	-	-	1425	1.21	-	-	-	-	26.30	187-254 V, 60 Hz	F2				

Electrical Equipment

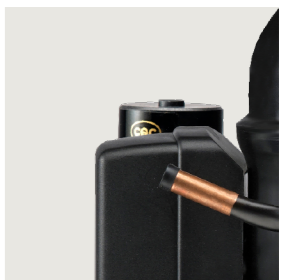
Dimensions							LST (RSIR & RSCR) refer to data sheet for more info					Run capacitor (RC)		HST (CSIR & CSCR) *alt. cable lengths avail.			LST/HST	
Height [mm]		Connectors location/I.D. [mm]					alt. connectors available	PTC starting device		ePTC	→ optional → compulsory*		Starting relay	Starting capacitor	Starting device*	Cord relief	Cover	
A	B	Suction C (I.D.)	Process D (I.D.)	Dis-charge E (I.D.)	6.3 mm	4.8 mm		6.3 mm	4.8 mm		4.8 mm	6.3 mm						4.8 mm
203	197	9.7	6.5	6.5	X	-	-	-	-	-	-	-	-	117U4139	117U5018	-	117U0349	117U1021
203	197	8.2	6.5	6.5	X	-	-	-	-	-	-	-	-	117U6022	117U5015	-	103N1010	103N2011
209	203	8.2	6.2	6.2	X	-	-	-	-	-	-	-	-	117U6005	117U5017	-	103N1004	103N2008
209	203	8.2	6.5	6.5	-	-	-	-	-	-	-	-	-	117U6011	117U5017	-	103N1004	103N2008
219	213	8.2	6.2	6.2	X	-	-	-	-	-	-	-	-	117U6019	117U5017	-	103N1004	103N2008
219	213	9.63	6.5	6.5	X	-	-	-	-	-	-	-	-	-	-	117-7027	103N1004	103N2008
219	213	8.2	6.2	6.2	X	-	-	-	-	-	-	-	-	117U6019	117U5017	-	103N1004	103N2008
219	213	8.2	6.5	6.5	-	-	-	-	-	-	-	-	-	117U6011	117U5017	-	103N1004	103N2008
219	213	10.2	6.2	6.2	-	-	-	-	-	-	-	-	-	117U5373	117-7039	103N1004	103N2008	
219	213	9.63	6.5	6.5	X	-	-	-	-	-	-	-	-	117U5373	117-7039	103N1004	103N2008	
219	213	9.63	6.5	6.5	-	-	-	-	-	-	-	-	-	-	117-7058	103N1004	103N2008	
219	213	9.63	6.5	6.5	X	-	-	-	-	-	-	-	-	117U5373	117-7066	103N1004	103N2008	
219	213	9.63	6.5	6.5	-	-	-	-	-	-	-	-	-	-	117-7066	103N1004	103N2008	
259	254	12	6.2	6.2	-	-	-	-	-	-	-	-	-	117U6019	117U5017	-	103N1004	103N2009
259	247	12.9	6.5	8.2	-	-	-	-	-	-	-	-	-	-	-	117-7073	-	107B9101
279	267	12.9	6.5	9.7	-	-	-	-	-	-	-	-	-	-	-	117-7073	-	107B9106
279	267	12.9	6.5	8.2	-	-	-	-	-	-	-	-	-	-	-	117-7073	-	107B9101

R407C · 220-240 V · 50 Hz

Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE						Displacement [cm³]	Voltage and frequencies [*dual frequency type with 50/60 Hz]	Compressor cooling cooling (refer to data sheet)				
			LBP rating point -23.3°C / 54.4°C		MBP rating point -6.7°C / 54.4°C		HBP rating point 7.2°C / 54.4°C		Cooling capacity		COP		Cooling capacity					COP			
			-35	-15	-5	0	10	15	[W]	[W/W]	[W]	[W/W]	[W]	[W/W]				[W]	[W/W]	[W]	[W/W]
			[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	[cm³]												
SC10DL	104L2525	M/HBP	-	469	842	1074	1653	2013	-	-	685	1.57	1308	2.32	10.29	198-254 V, 50 Hz	F2				
SC12DL	104L2625	M/HBP	-	621	1087	1385	2144	2620	-	-	886	1.58	1692	2.38	12.87	198-254 V, 50 Hz	F2				
SC15DL	104L2856	M/HBP	-	782	1351	1709	2612	3174	-	-	1104	1.70	2069	2.59	15.28	198-254 V, 50 Hz	F2				
SC10/10DL	104L4091	M/HBP	-	937	1685	2148	3307	4026	-	-	1371	1.57	2615	2.32	20.58	198-254 V, 50 Hz	F2				
SC12/12DL	104L4092	M/HBP	-	1241	2174	2769	4287	5239	-	-	1772	1.58	3384	2.38	25.74	198-254 V, 50 Hz	F2				
SC15/15DL	104L4093	M/HBP	-	1563	2703	3419	5224	6348	-	-	2208	1.70	4137	2.59	30.56	198-254 V, 50 Hz	F2				

Electrical Equipment

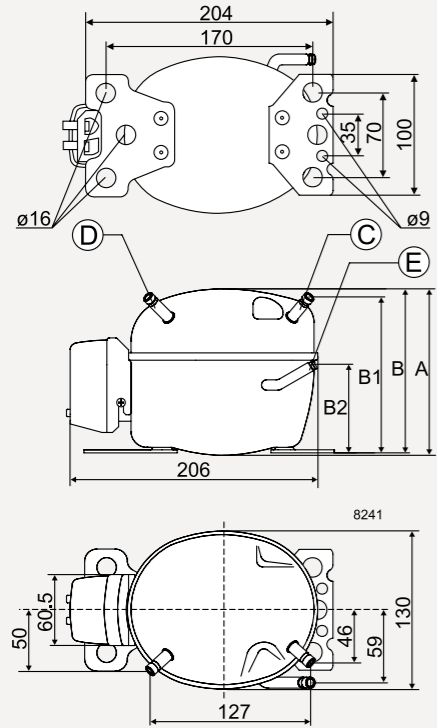
Dimensions							LST (RSIR & RSCR) refer to data sheet for more info					Run capacitor (RC)		HST (CSIR & CSCR) *alt. cable lengths avail.			LST/HST	
Height [mm]		Connectors location/I.D. [mm]					alt. connectors available	PTC starting device		ePTC	→ optional → compulsory*		Starting relay	Starting capacitor	Starting device*	Cord relief	Cover	
A	B	Suction C (I.D.)	Process D (I.D.)	Dis-charge E (I.D.)	6.3 mm	4.8 mm		6.3 mm	4.8 mm		4.8 mm	6.3 mm						4.8 mm
209	203	8.2	6.2	6.2	X	-	-	-	-	-	-	-	-	117U6005	117U5017	-	103N1004	103N2009
219	213	10.2	6.2	6.2	X	-	-	-	-	-	-	-	-	117U6019	117U5017	-	103N1004	103N2009
219	213	10.2	6.2	6.2	X	-	-	-	-	-	-	-	-	117U5373	117-7029	103N1004	103N2009	
249	244	12	6.2	6.2	-	-	-	-	-	-	-	-	-	117U6005	117U5017	-	103N1004	103N2009
259	254	12	6.2	6.2	-	-	-	-	-	-	-	-	-	117U6019	117U5017	-	103N1004	103N2009
259	254	16	6.2	6.2	-	-	-	-	-	-	-	-	-	117U5373	117-7029	103N1004	103N2009	



● Alternative refrigerant R452A, please refer to our data sheets



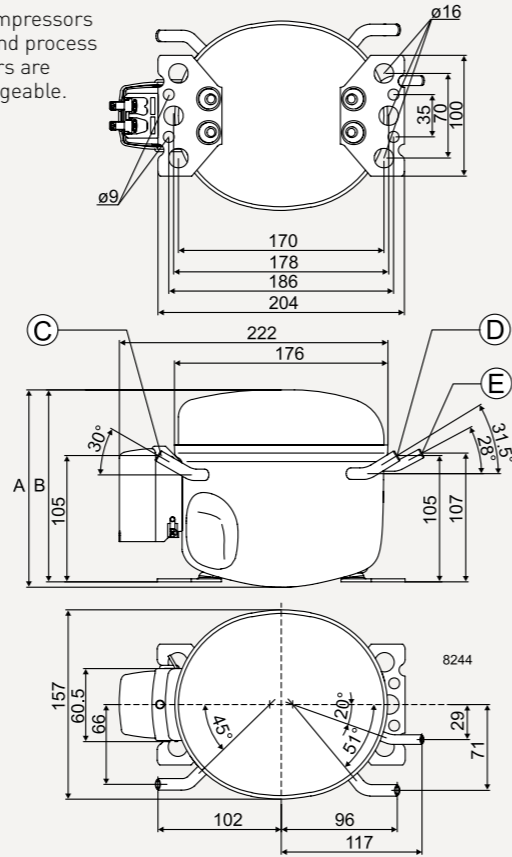
PL



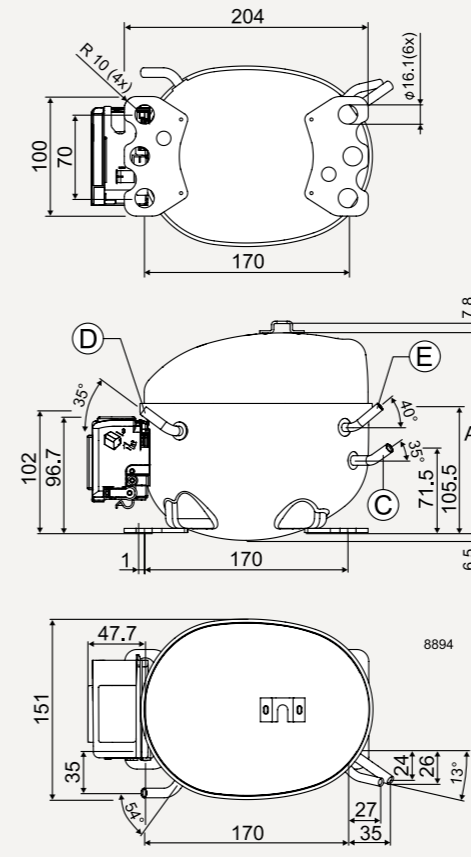
Note:
Please refer to data sheets for heights B1 and B2

TL/TLS/TLES (TFS similar)

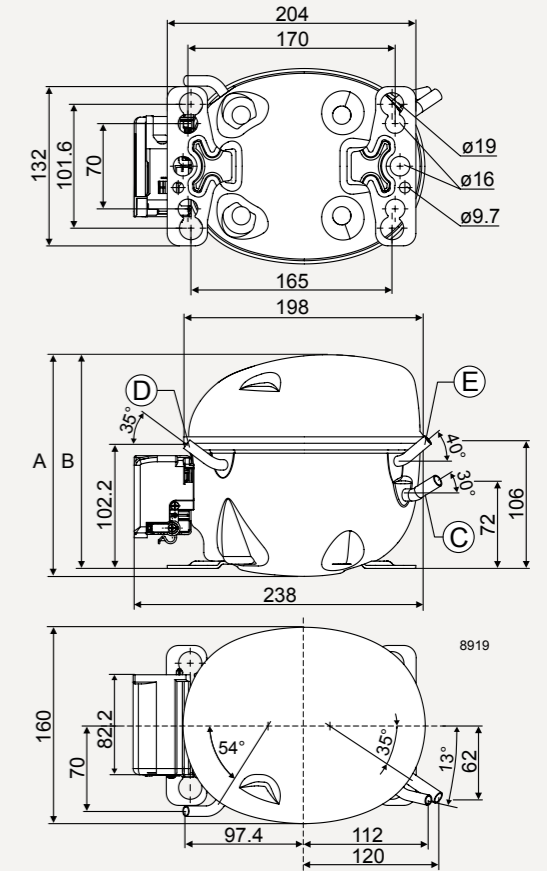
Note:
On TL compressors suction and process connectors are interchangeable.



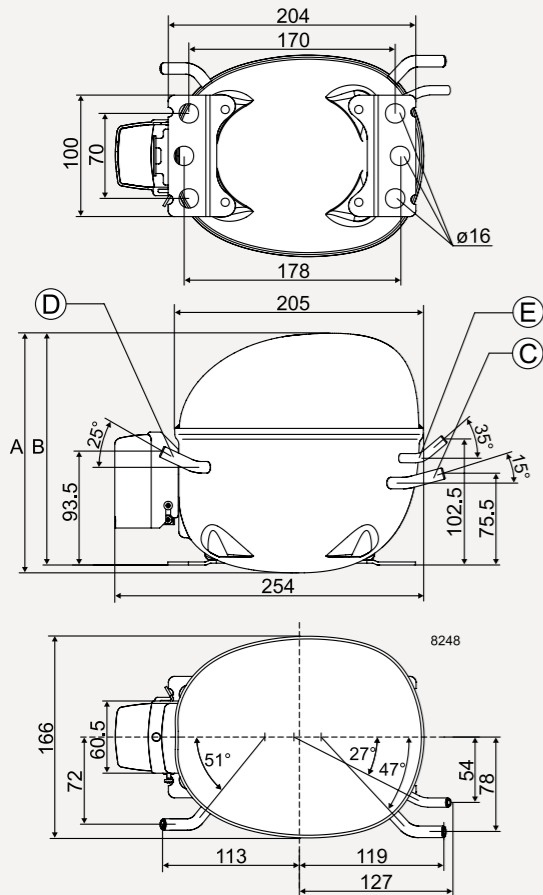
GTK (K-Series)



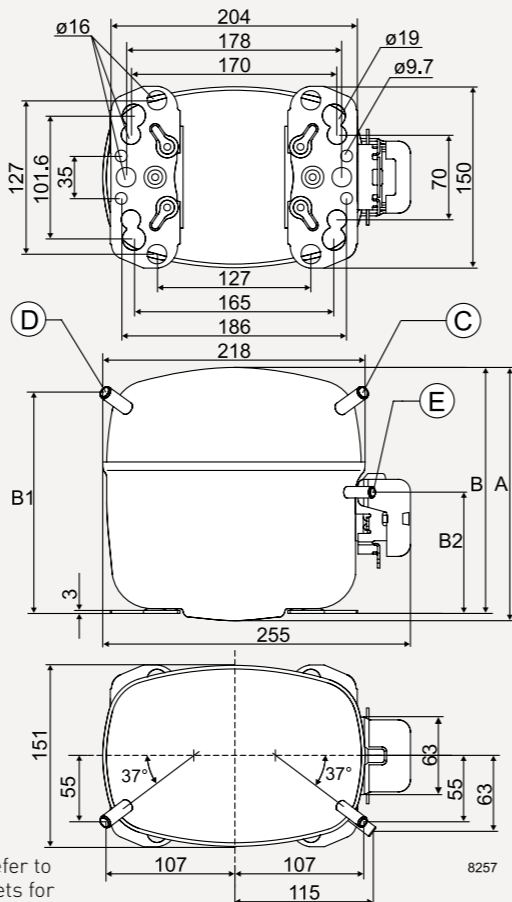
KLE/KLF (KL-Series)/FRK



NL/NLE (NF similar)

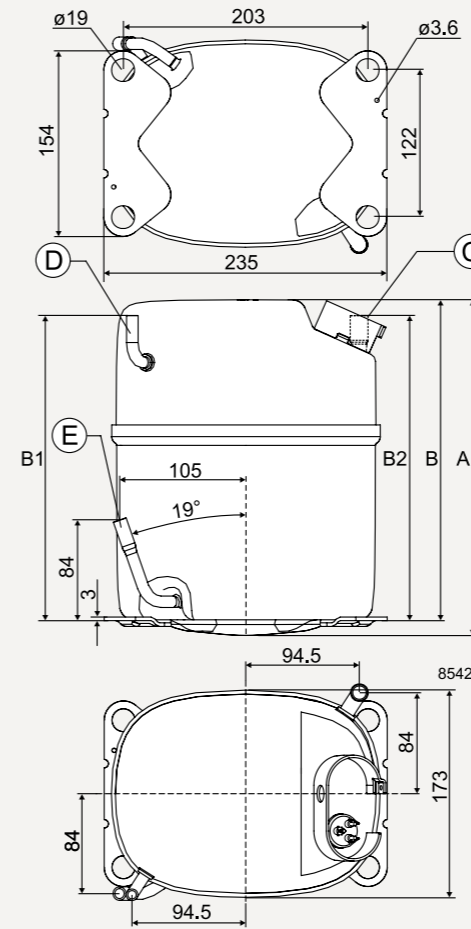


SC (SC-GHH w. additional oil cooler connector)

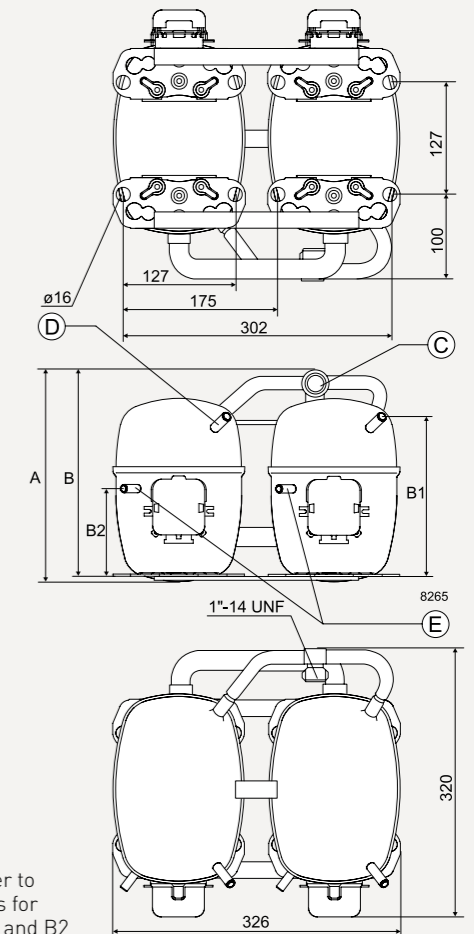


Note:
Please refer to data sheets for heights B1 and B2

GS (GS34CLX has interchanged connectors)

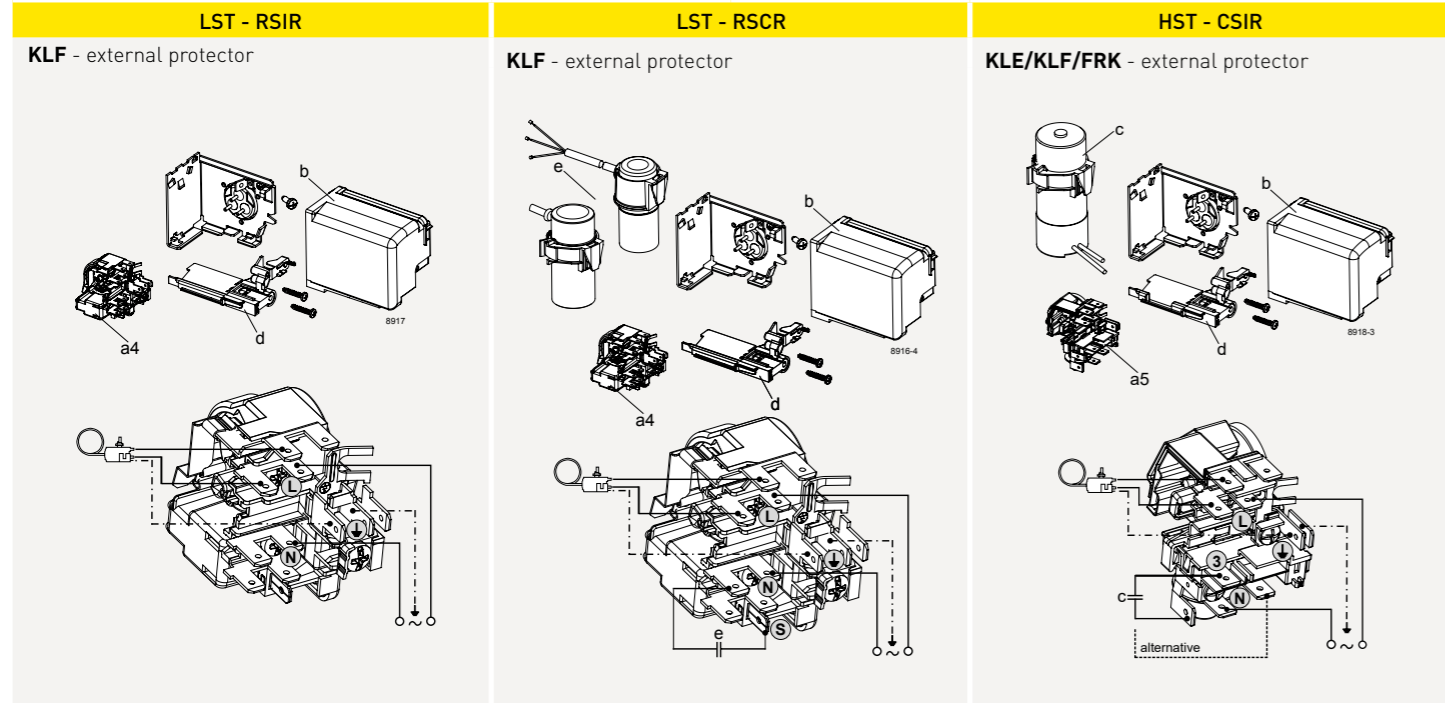
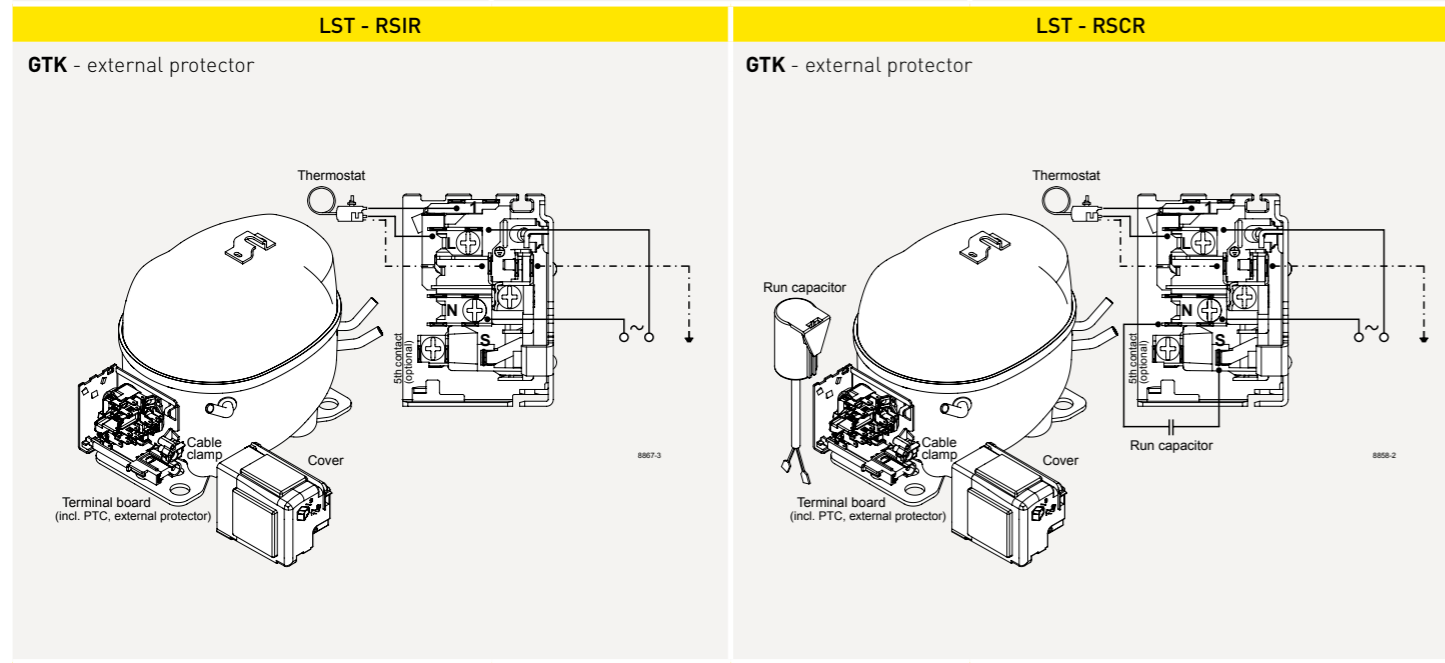
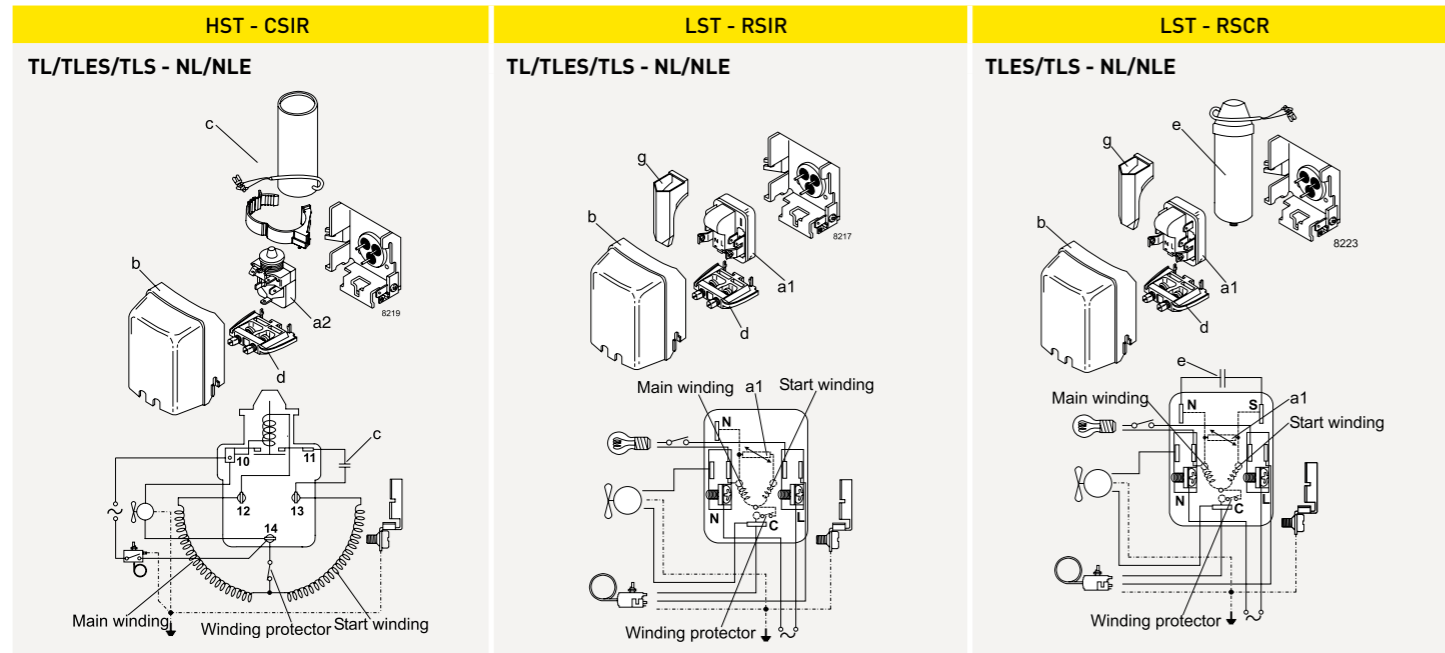


SC-Twin

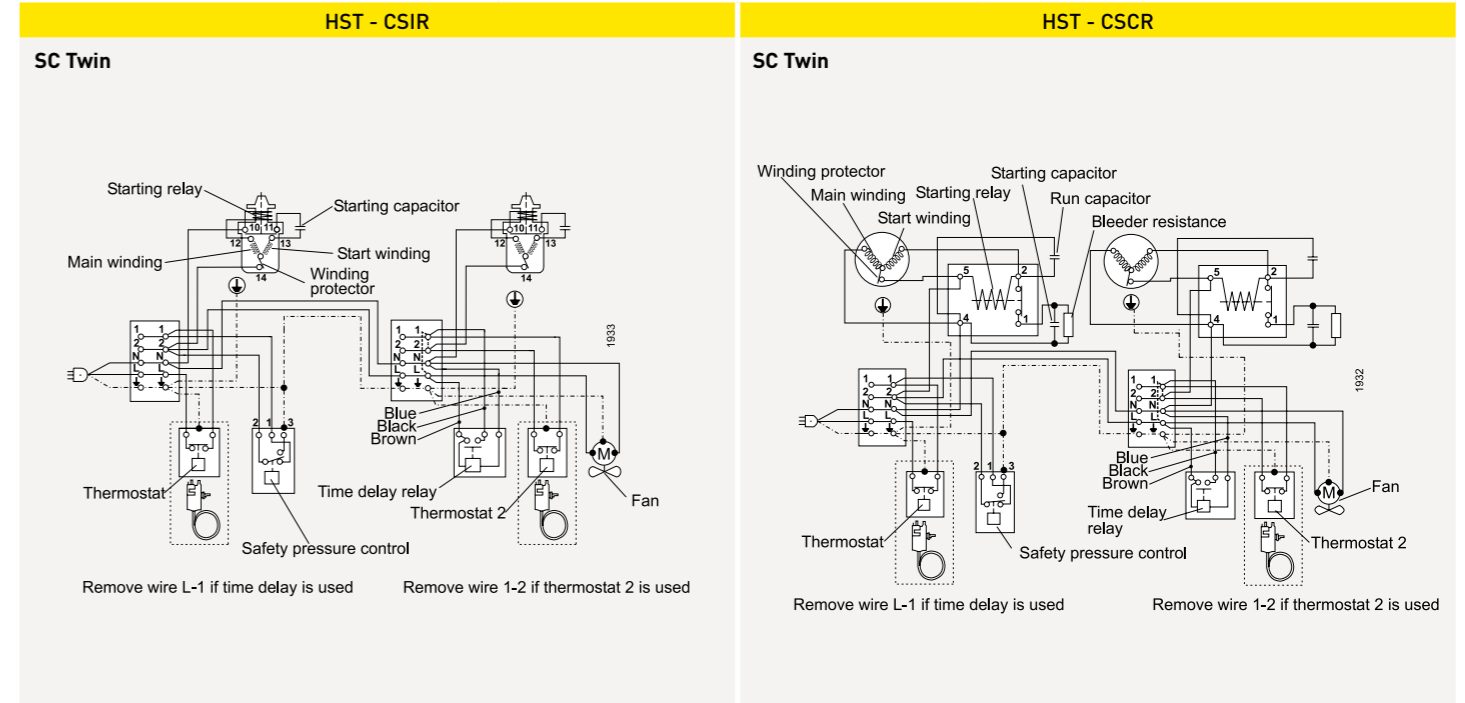
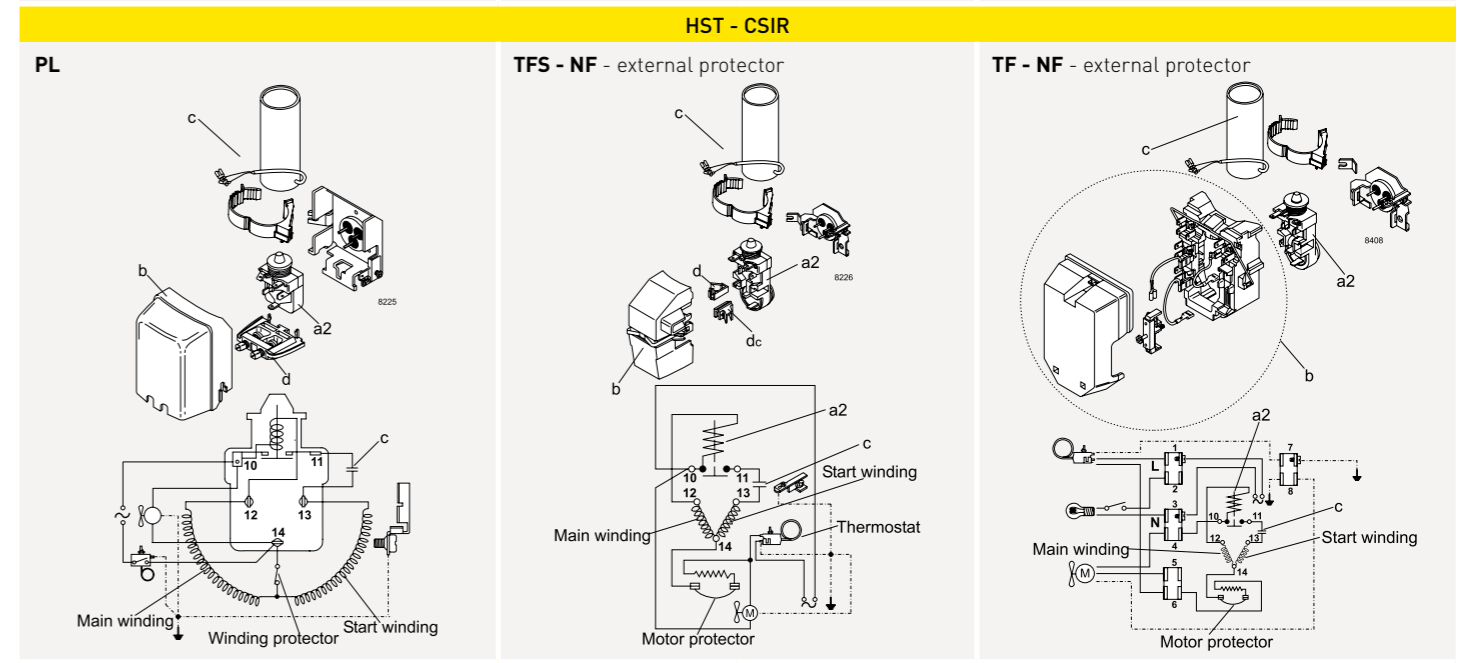
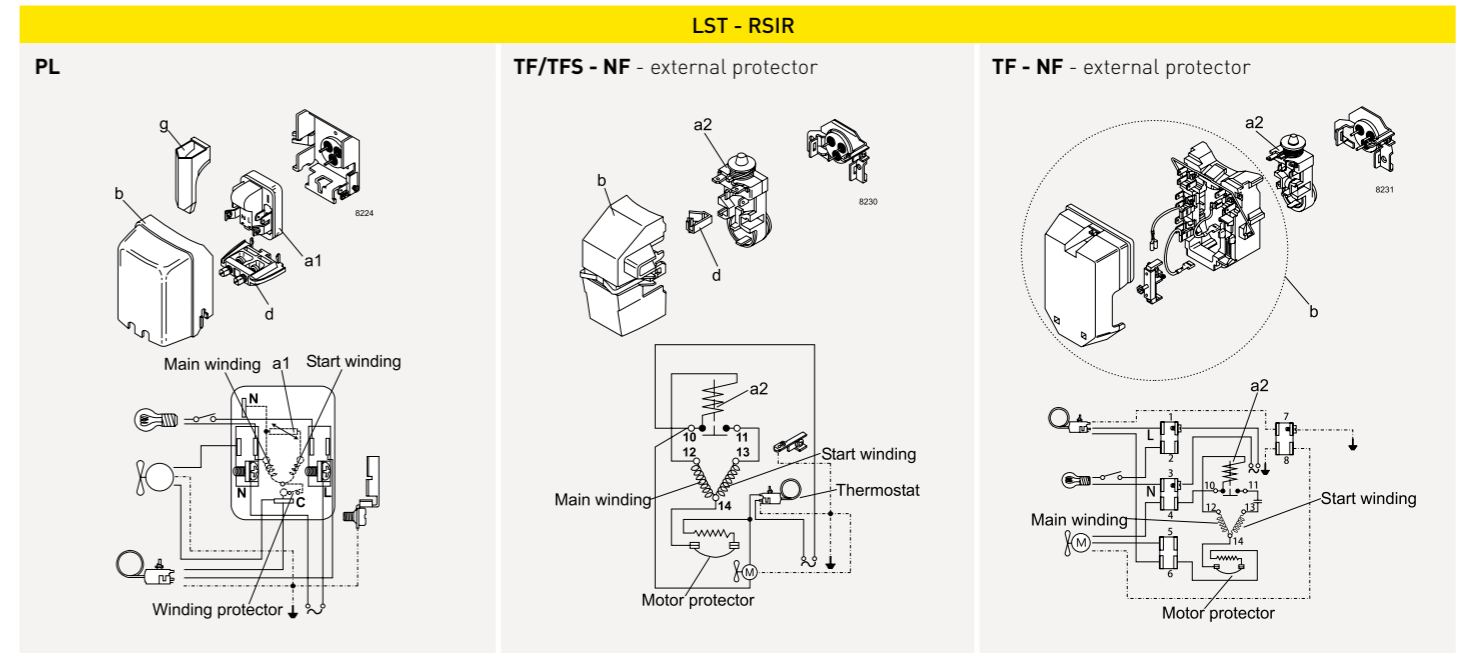


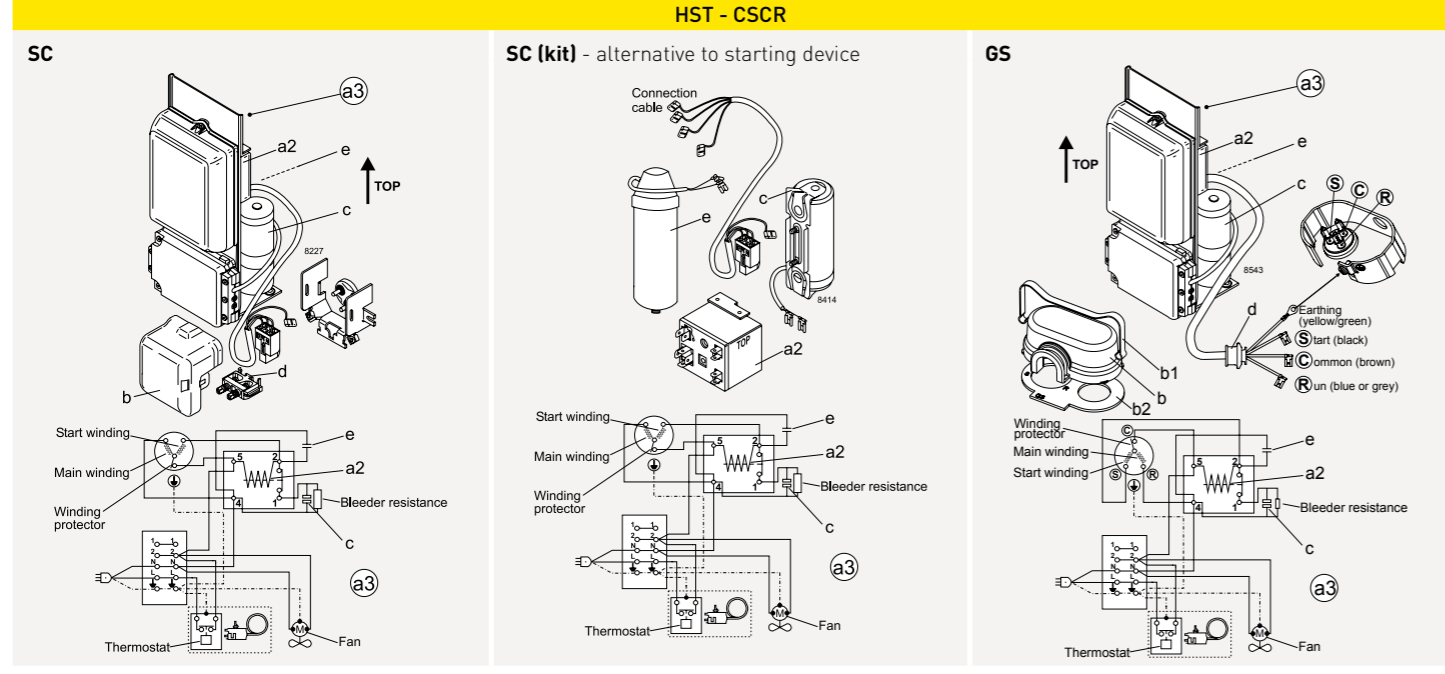
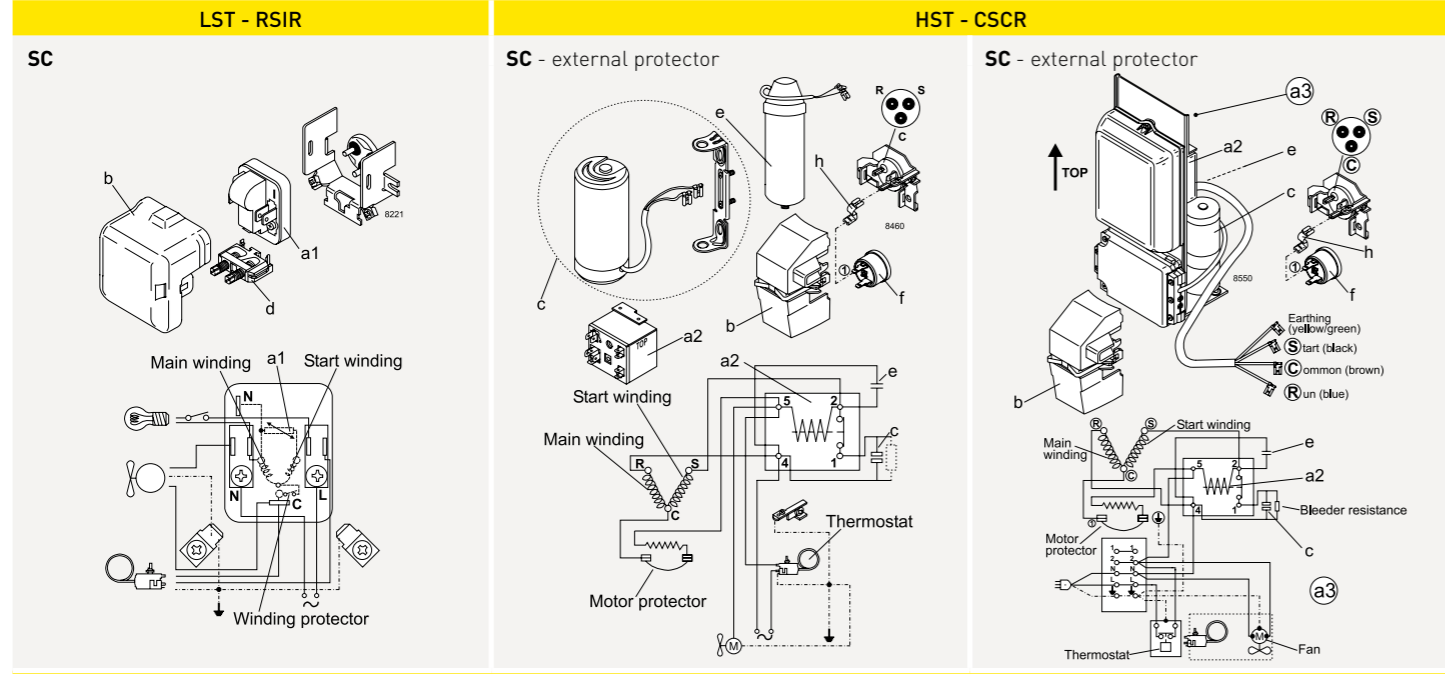
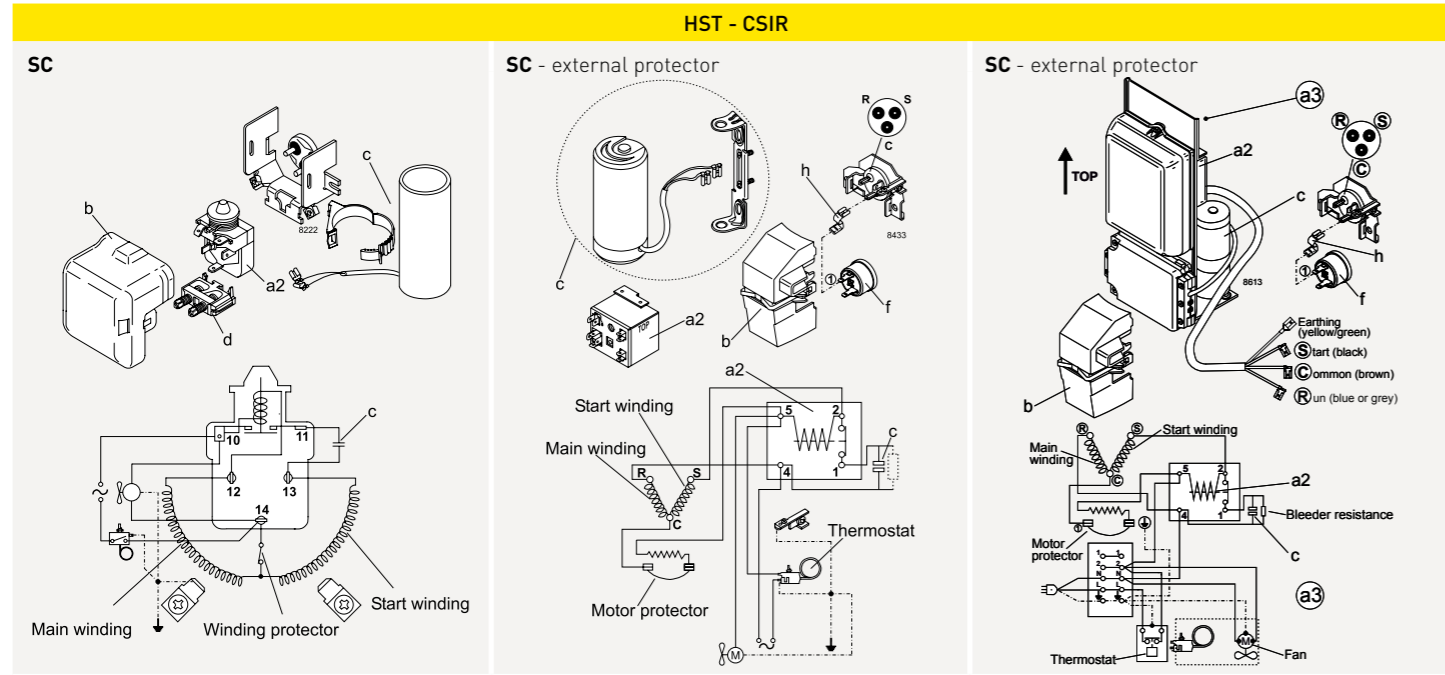
Note:
Please refer to data sheets for heights B1 and B2

Electrical Equipment · Motor Systems for Secop Compressors



Electrical Equipment · Motor Systems for Secop Compressors





Mounting	Code number	Bolt / pin dimension	Comp. base hole	Type of packaging	Compressor series	Parts list
Bolt joint	118-1917	M6 metric	16 mm	Single pack for one compressor	P- / T- / K- / KL- / F- / N- / S-Series	I
Bolt joint	118-1918	M6 metric	16 mm	Industrial pack in any quantity	P- / T- / K- / KL- / F- / N- / S-Series	I
Bolt joint	107B9150	M8 metric	19 mm	Single pack for one compressor	G-Series	II
Bolt joint	118-1946	1/4 inch	16 mm	Single pack for one compressor	P- / T- / KL- / F- / N- / S-Series	III
Bolt joint	118-1949	1/4 inch	19 mm	Single pack for one compressor	all with 19 mm base holes (except G-Series)	IV
Snap-on	118-1947	Ø 7.3 mm	16 mm	Single pack for one compressor	P- / T- / KL- / F- / N- / S-Series	V
Snap-on	118-1919	Ø 7.3 mm	16 mm	Industrial pack in any quantity	P- / T- / KL- / F- / N- / S-Series	V

Parts list (4 pcs. per compressor needed)			Symbol drawings
I	Sleeve Ø 8 mm x 6.4 mm x 0.8 mm	112-2052	
	Washer Ø 20 mm x Ø 6.7 mm x 1 mm	112-2053	
	Bolt M6 x 25 mm	681X1130	
	Nut M6	118-3659	
II	Rubber grommet 16 mm	118-3661	
	Sleeve Ø 11 mm x 8.6 mm x 1.2 mm	107B9152	
	Washer Ø 20 mm x Ø 8.8 mm x 1.2 mm	107B9155	
	Bolt M8 x 40 mm	107B9153	
III	Nut M8	107B9154	
	Rubber grommet 19 mm	107B9151	
	Sleeve Ø 8.3 mm x 6.7 mm x 0.8 mm	112-2088	
	Washer Ø 20 mm x Ø 6.7 mm x 1 mm	112-2053	
IV	Bolt 1/4 x 1 inch, 20 UNC	119-3002	
	Nut 1/4 inch, 20 UNC	119-3031	
	Rubber grommet 16 mm	118-3661	
	Sleeve Ø 9.5 mm x 7.9 mm x 0.8 mm	112-2085	
V	Washer Ø 20 mm x Ø 6.7 mm x 1 mm	112-2053	
	Bolt 1/4 x 1 1/4 inch, 20 UNC	119-3002	
	Nut 1/4 inch, 20 UNC	119-3031	
	Rubber grommet 19 mm	118-3666	
	Steel pin	118-3586	
	Washer Ø 21 x Ø 8.1 mm x 0.9 mm	118-3588	
	Clip	118-3585	
	Rubber grommet 16 mm	118-3661	

Further information

Applications
LBP: Low Back Pressure
HBP: High Back Pressure
MBP: Medium Back Pressure

Motor types
RSIR: Resistant Start Induction Run
RSCR: Resistant Start Capacitor Run
CSIR: Capacitor Start Induction Run
CSCR: Capacitor Start Capacitor Run

Compressor cooling
 S = Static cooling normally sufficient
 O = Oil cooling
 F1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
 F2 = Fan cooling 3.0 m/s necessary

Starting devices
LST: Low Starting Torque
 LST is used with capillary tube control and pressure equalizing. (Pressure equalizing may exceed 10 minutes). The PTC starting device requires 5 minutes cooling before each start.

HST: High Starting Torque
 HST consisting of relay and starting capacitor is used for expansion valve control or for capillary tube control without pressure equalizing.

ePTC: Electronically controlled PTC
 • Compressor restart possible after a few seconds
 • Operational wattage loss reduced by 2 watt
 • PTC protection screen not needed (surface temp. < 82 °C)

Legend

a1: PTC or ePTC starting device
a2: Starting relay
a3: Starting device
a4: Terminal board incl. PTC and protector
a5: Terminal board incl. relay
b: Cover
b1: Clamp (part of compressor)
b2: Gasket (part of compressor)
c: Starting capacitor
d: Cord relief
e: Run capacitor
f: Protector
g: Protection screen for PTC
h: Holder

K-Series (GTK) · evaporation tray

PTC protection screen

Note (GTK, KLE and FRK compressors excluded):
 To fulfil the requirements of EN 60335-2-34 the protection screen 103N0476 must be applied to the PTC starting device.

SECOP GROUP: AROUND THE WORLD

SECOP

12

international
partners for
advanced
developments

33

laboratories
located in Austria,
Germany, Slovakia,
China, U.S.A., and
Turkey

160

R&D engineers
and technicians

440

patents globally

50+

countries with
customer support



Secop is the expert for advanced hermetic compressor technologies and cooling solutions in commercial refrigeration. We develop high performance stationary and mobile cooling solutions for leading international commercial refrigeration manufacturers and are the first choice when it comes to leading hermetic compressors and electronic controls for refrigeration solutions for light commercial and DC-powered applications.

Secop was formerly known as Danfoss Compressors and is one of the founding fathers of modern compressor technology with years of experience that goes back to the beginning of the 1950s.

- Flensburg:** Sales and R&D
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- Turin:** Sales
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- Gleisdorf:** R&D
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**Stationary
Cooling**



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Cooling**



**Medical
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