

HXD40MA DELTA LBP/MBP Compressor Superior Efficiency R600a 220-240V 50Hz

General

Code number (pre-assembled RSIR start equipment)	CDO00083
Approvals	EN 60335-2-34 w. Annex AA
Compressors on pallet	168

Application

Application		LBP/MBP	
Frequency	Hz	50	60
Evaporating temperature	°C	-35 to 10	—
Voltage range	V	187 to 254	—
Max. condensing temperature continuous (short)	°C	65 (75)	—
Max. winding temperature continuous (short)	°C	120 (130)	—

Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		S	S	—	—	—	—
38°C		S	S	—	—	—	—
43°C		S	S	—	—	—	—
Remarks on application:							

Motor

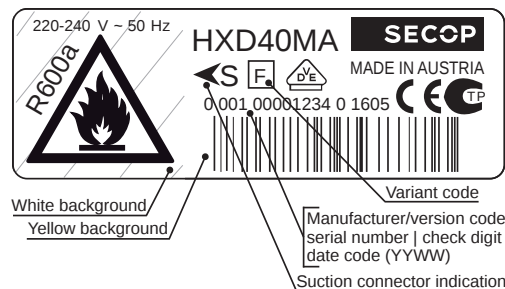
Motor type		RSCR/RSIR	
LRA (rated after 4 sec. UL984), HST LST	A	—	1.7
Cut in Current, HST LST	A	—	5.5
Resistance, main start winding (25°C)	Ω	47.8	43.7

Design

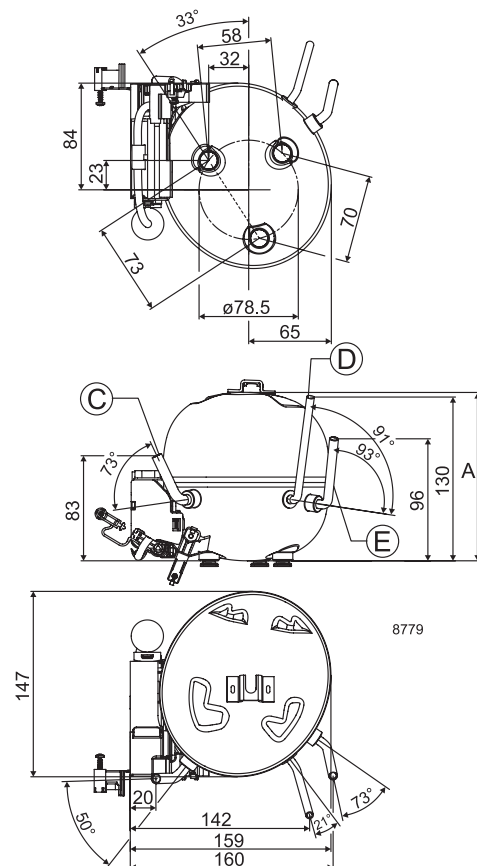
Displacement	cm ³	4.00
Oil quantity (type)	cm ³	84 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm ³	837
Weight without electrical equipment	kg	3.8

Dimensions

Height	mm	A	133
		B	—
Suction connector	location/I.D. mm angle	C	6.2 73°
	material comment		Copper Rubber plug
Process connector	location/O.D. mm angle	D	6.0 91°
	material comment		Copper Rubber plug
Discharge connector	location/I.D. mm angle	E	5.0 93°
	material comment		Cu-plated steel Rubber plug
Oil cooler connector	location/I.D. mm angle	F	—
	material comment		—
Connector tolerance	I.D. mm		±0.1
Remarks:			



- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



EN 12900 MBP

220V, 50Hz, RC 2.0µF, ePTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			32	44.1	58.9	64.6	76.7	98	123	142	152	187	226	245	270		
Power cons. in W			31.3	35.7	40.3	41.9	45.1	49.9	54.7	57.8	59.3	63.7	67.8	69.5	71.4		
Current cons. in A			0.18	0.20	0.22	0.22	0.24	0.26	0.28	0.29	0.30	0.31	0.33	0.34	0.35		
COP in W/W			1.02	1.24	1.46	1.54	1.70	1.96	2.25	2.46	2.57	2.93	3.33	3.52	3.78		

ASHRAE LBP

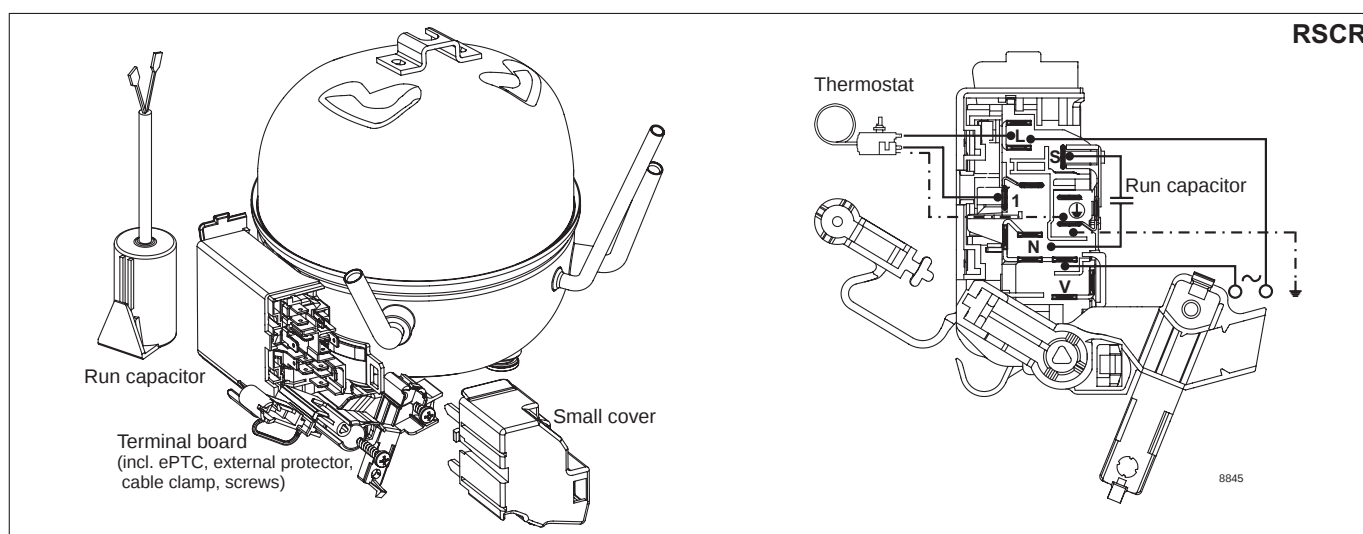
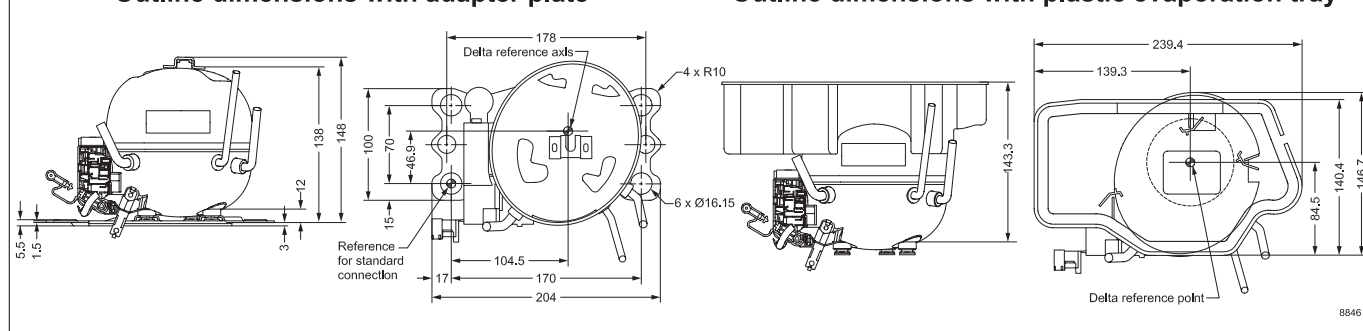
220V, 50Hz, RC 2.0µF, ePTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			32.6	46.6	63.2	69.5	82.8	106	133	154	165	202	244	265	293		
Power cons. in W			30.8	35.5	40.5	42.3	45.7	51.1	56.4	59.9	61.7	66.8	71.6	73.6	76.1		
Current cons. in A			0.18	0.20	0.23	0.23	0.25	0.27	0.29	0.31	0.32	0.34	0.36	0.37	0.38		
COP in W/W			1.06	1.31	1.56	1.64	1.81	2.08	2.36	2.57	2.68	3.02	3.41	3.60	3.85		

ASHRAE MBP

220V, 50Hz, RC 2.0µF, ePTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			29.3	41.9	56.8	62.5	74.5	95.3	120	138	148	181	219	238	263		
Power cons. in W			30.5	35.2	40.1	41.9	45.3	50.6	55.9	59.3	61.1	66.1	70.9	72.8	75.3		
Current cons. in A			0.18	0.20	0.23	0.23	0.25	0.27	0.29	0.31	0.32	0.34	0.36	0.37	0.38		
COP in W/W			0.96	1.19	1.42	1.49	1.64	1.88	2.14	2.33	2.43	2.74	3.10	3.26	3.49		

**Outline dimensions with adapter plate****Outline dimensions with plastic evaporation tray**

Accessories for	HXD40MA	Code number	Test conditions	EN 12900 MBP	ASHRAE LBP	ASHRAE MBP
Run capacitor (optional)	4.8 mm spade connectors	2.0 µF	Condensing temperature	45°C	54.4°C	54.4°C
Small cover (compulsory, delivered separately)		160943_	Ambient temperature	32°C	32.2°C	35°C
Adapter plate		157008_	Suction gas temperature	20°C	32.2°C	35°C
Evaporator tray		162531_	Liquid temperature	no subcooling	32.2°C	46.1°C

Spare parts for	HXD40MA	Code number	Mounting accessories (for adapter plate)	Code number
Terminal board (incl. ePTC, external protector, cable clamp, screws)	4.8 mm spade connectors	BX E4	Bolt joint for one comp.	Ø: 16 mm 118-1917
Motor protector	AE23FLS	E4	Bolt joint in quantities	Ø: 16 mm 118-1918
			Snap-on in quantities	Ø: 16 mm 118-1919

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