

Technical Data Sheet

Compressor model **ML45TB**
Voltage **220-240V 50Hz ~1**
Refrigerant **R404A**

APPLICATION

Application High-Medium Back Pressure
Refrigerant R404A
Evaporating Temp. -25,0 to 10,0
Expansion Capillar/Valve
Comp. Cooling Fan cooled
Max. ambient temp. 43,0

COMPRESSOR

Displacement 4,50 cm³
Diameter 22,00 mm
Stroke 11,83 mm
Net Weight 10,10 Kg
Oil type ISO VG 46 ESTER
Oil charge 300 cm³

MOTOR

Approximate Power 1/5 hp
Voltage/Frequency 220V 50Hz
Voltage range 187-264 V
Type CSIR
Phase number 1 P
Locked rotor current 9,70 A
Main W. resist. at 25°C 12,00
Start W. resist. at 25°C 30,00

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	570 kcal/h	528 W
COP	1,82 W/W	1,50 W/W
EER	1,56 kcal/Wh	1,30 kcal/Wh
Input Power	365 W	352 W
Current	2,10 A	2,04 A

APPROVALS



TEST CYCLE CONDITIONS

	ASHRAE HMBP (D)	CECOMAF HMBP (C)
Evaporating temp.	7,2 °C	5,0 °C
Condensing temp.	55,0 °C	55,0 °C
Liquid temp.	46,0 °C	55,0 °C
Ambient temp.	35,0 °C	32,0 °C
Suction temp.	35,0 °C	32,0 °C
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

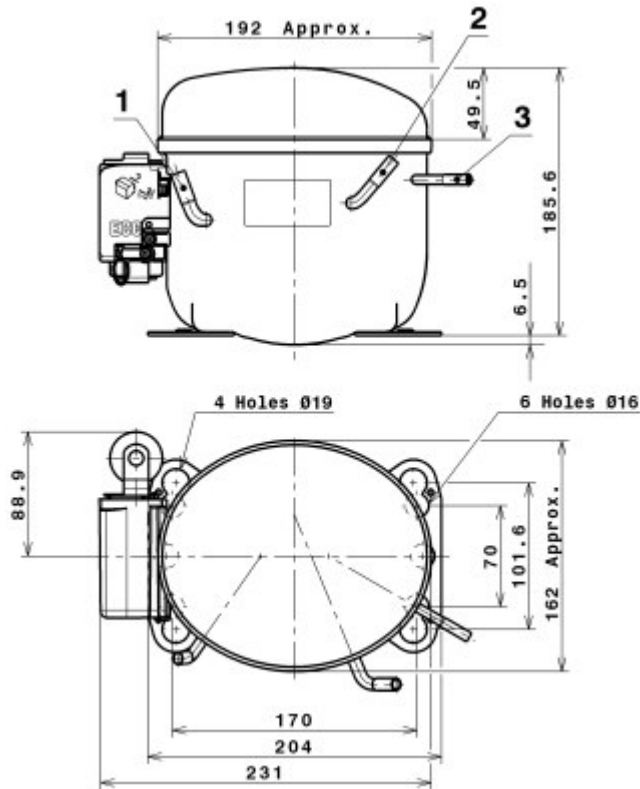
Starting capacitor	47- 56 µF 330 V			
Relay	Option 1			
Reference	2014 127.			
Pick-Up	4,80 A			
Drop-Out	4,10 A			
Protector	Option 1	Option 2		
Reference	MRP56AMK	T0057		
Current	9,40 A	8,50 A		
Time check	7,5-14 seg	7,5-14 seg		
Disc temp. (Open/Close)	105,00 / 61,00 °C	105,00 / 61,00 °C		

ASHRAE

Tc	Te	Cooling Capacity kcal/h	Consumption W	Current A	COP W/W	EER kcal/Wh
40	-25	203	198	1,44	1,19	1,02
40	-20	260	217	1,50	1,39	1,20
40	-15	327	235	1,57	1,61	1,39
40	-10	403	254	1,64	1,85	1,59
40	-5	490	272	1,71	2,10	1,80
40	0	586	290	1,78	2,35	2,02
40	5	693	308	1,85	2,62	2,25
40	7,2	743	316	1,88	2,74	2,35
40	10	809	325	1,93	2,89	2,49
45	-25	185	200	1,45	1,08	0,93
45	-20	236	221	1,52	1,24	1,07
45	-15	297	242	1,59	1,43	1,23
45	-10	367	262	1,67	1,63	1,40
45	-5	448	283	1,75	1,84	1,58
45	0	538	303	1,83	2,06	1,77
45	5	638	323	1,92	2,30	1,97
45	7,2	685	332	1,95	2,40	2,06
45	10	748	343	2,00	2,53	2,18
50	-25	168	202	1,45	0,96	0,83
50	-20	212	225	1,53	1,10	0,94
50	-15	267	248	1,62	1,25	1,07
50	-10	331	271	1,71	1,42	1,22
50	-5	405	294	1,80	1,60	1,38
50	0	489	316	1,89	1,80	1,55
50	5	583	339	1,98	2,00	1,72
50	7,2	628	349	2,03	2,09	1,80
50	10	687	361	2,08	2,21	1,90
55	-25	150	204	1,46	0,86	0,74
55	-20	189	230	1,55	0,96	0,82
55	-15	237	255	1,64	1,08	0,93
55	-10	295	280	1,74	1,23	1,05
55	-5	363	305	1,84	1,38	1,19
55	0	441	330	1,94	1,55	1,34
55	5	528	354	2,05	1,73	1,49
55	7,2	570	365	2,10	1,82	1,56
55	10	626	379	2,16	1,92	1,65
60	-25	133	206	1,47	0,75	0,64
60	-20	165	234	1,56	0,82	0,70
60	-15	207	261	1,67	0,92	0,79
60	-10	259	289	1,77	1,04	0,90
60	-5	321	316	1,89	1,18	1,01
60	0	392	343	2,00	1,33	1,14
60	5	474	370	2,12	1,49	1,28
60	7,2	513	382	2,18	1,56	1,34
60	10	565	396	2,25	1,66	1,42

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COMPRESSOR DIMENSIONS

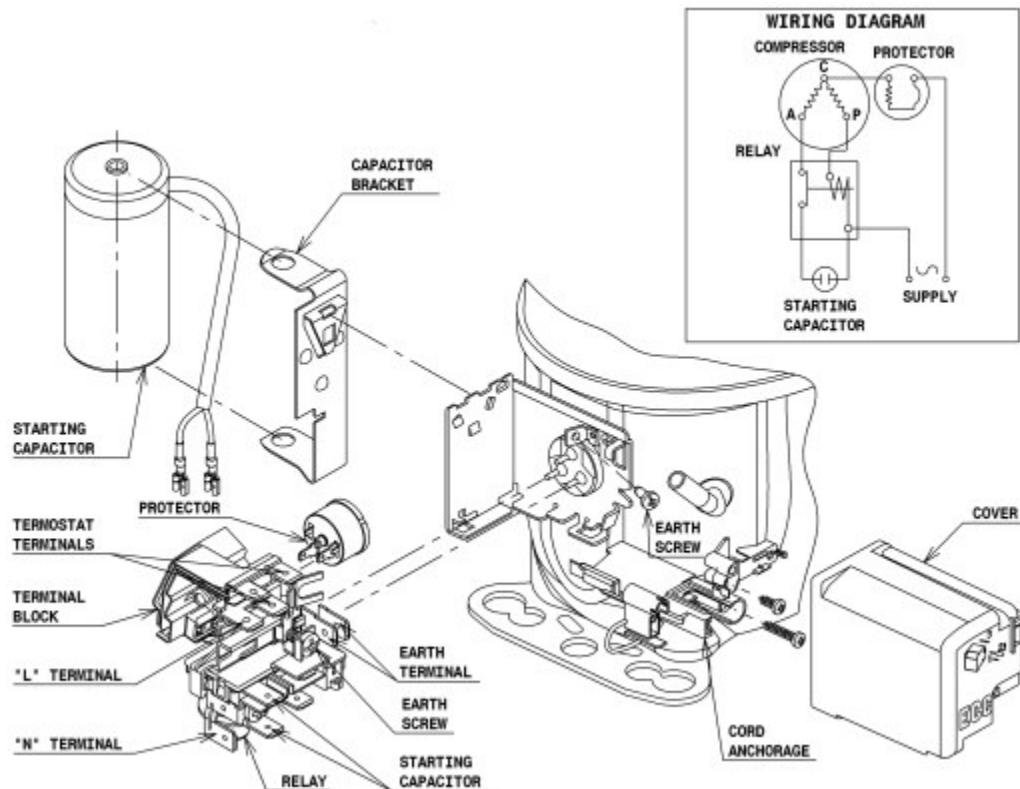


DESIGNATION INTERNAL DIAM.

1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

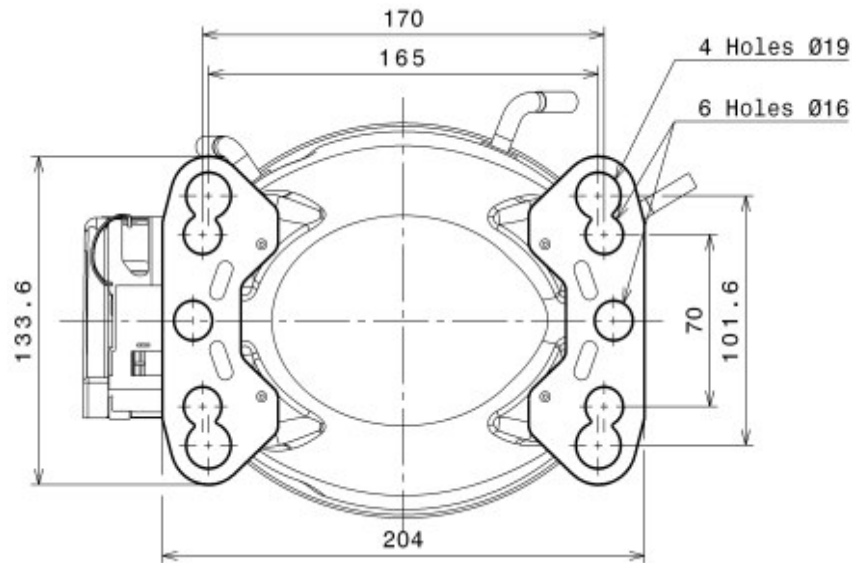
CSIR CONNECTION



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FIXINGS

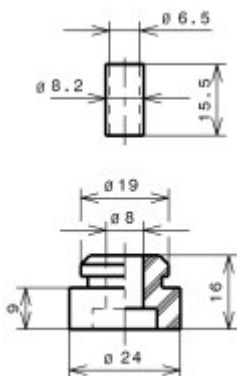
American mounting feet



SILENT BLOCKS (MOUNTING ACCESSORIES)

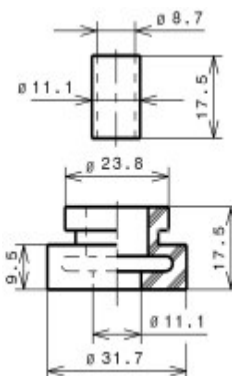
STANDARD

D.16 holds net (170x70)



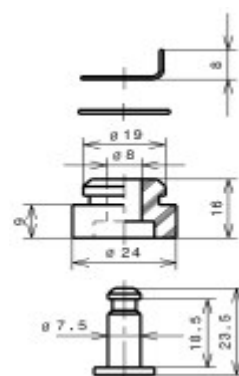
AMERICAN FEET

D.19 (165x101.6)



SNAP-ON

D.16 holds net (170x70)



SOA

SOA R404A HMBP

