

Technical Data Sheet

Compressor model **ML40TG**
Voltage **200-240/220-230V 50/60Hz ~1**
Refrigerant **R404A**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	4,05 cm ³	Nominal Power	1/6 hp
Refrigerant	R404A	Diameter	20,88 mm	Voltage/Frequency	220-230V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	11,83 mm	Voltage range	187-253 V
Expansion	Capillar/Valve	Net Weight	9,12 Kg	Type	CSIR
Comp. Cooling	Fan cooled	Oil type	ISO VG 32 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	300 cm ³	Locked Rotor Amps (LRA)	11,00 A
				Max. Cont. Current (MCC)	3,90 A
				Main W. resist. at 25°C	9,90 Ω
				Start W. resist. at 25°C	30,50 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	600 kCal/h	553 W
COP	1,70 W/W	1,39 W/W
EER	1,46 kCal/Wh	1,20 kCal/Wh
Input Power	410 W	398 W
Current	2,20 A	2,15 A

APPROVALS



TEST CYCLE CONDITIONS

	ASHRAE HMBP (D)	CECOMAF HMBP (C)
Evaporating temp. (T _e)	7,2 °C	5,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	46,0 °C	55,0 °C
Ambient temp. (T _{amb.})	35,0 °C	32,0 °C
Suction temp. (T _{suction})	35,0 °C	32,0 °C
Voltage/Frequency	230 V 60 Hz	230 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	47- 56 µF 330 V			
Relay	Option 1			
Reference	2014 131.			
Pick-Up	5,30 A			
Drop-Out	4,50 A			
Protector	Option 1	Option 2		
Reference	MRT38AMK	T0168		
Current	10,00 A	9,50 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 °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	208	204	1,43	1,18	1,02
40	-20	268	225	1,50	1,38	1,19
40	-15	338	247	1,56	1,60	1,37
40	-10	419	269	1,64	1,81	1,56
40	-5	510	292	1,72	2,03	1,75
40	0	611	315	1,81	2,25	1,94
40	5	722	339	1,90	2,48	2,13
40	7,2	774	350	1,94	2,57	2,21
40	10	843	364	2,00	2,69	2,32

45	-25	190	206	1,44	1,07	0,92
45	-20	244	230	1,51	1,24	1,06
45	-15	308	254	1,59	1,41	1,21
45	-10	383	279	1,68	1,59	1,37
45	-5	467	305	1,77	1,78	1,53
45	0	562	331	1,87	1,97	1,70
45	5	667	358	1,98	2,17	1,86
45	7,2	716	370	2,03	2,25	1,94
45	10	782	385	2,09	2,36	2,03

50	-25	173	208	1,44	0,96	0,83
50	-20	220	235	1,53	1,09	0,94
50	-15	278	262	1,62	1,24	1,06
50	-10	346	290	1,71	1,39	1,20
50	-5	425	318	1,82	1,55	1,33
50	0	513	347	1,93	1,72	1,48
50	5	611	377	2,05	1,89	1,62
50	7,2	658	390	2,11	1,96	1,69
50	10	720	407	2,19	2,06	1,77

55	-25	155	210	1,45	0,86	0,74
55	-20	197	239	1,54	0,95	0,82
55	-15	248	269	1,64	1,07	0,92
55	-10	310	300	1,75	1,20	1,03
55	-5	382	331	1,87	1,34	1,15
55	0	464	363	2,00	1,49	1,28
55	5	556	396	2,14	1,64	1,41
55	7,2	600	410	2,20	1,70	1,46
55	10	659	429	2,29	1,79	1,54

60	-25	138	212	1,46	0,75	0,65
60	-20	173	244	1,56	0,82	0,71
60	-15	218	277	1,67	0,92	0,79
60	-10	274	310	1,79	1,03	0,88
60	-5	339	344	1,92	1,15	0,99
60	0	415	379	2,06	1,27	1,10
60	5	501	414	2,22	1,41	1,21
60	7,2	542	430	2,29	1,47	1,26
60	10	597	450	2,39	1,54	1,33

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	217	205	1,44	1,06	0,92
40	-20	282	226	1,50	1,25	1,08
40	-15	357	248	1,57	1,44	1,24
40	-10	442	270	1,64	1,63	1,41
40	-5	536	294	1,73	1,83	1,58
40	0	641	317	1,81	2,02	1,74
40	5	755	342	1,91	2,21	1,91
40	7,2	808	353	1,95	2,29	1,98
40	10	879	367	2,01	2,40	2,07

45	-25	197	207	1,44	0,95	0,82
45	-20	254	231	1,51	1,10	0,95
45	-15	321	256	1,59	1,26	1,08
45	-10	398	281	1,68	1,42	1,22
45	-5	485	307	1,78	1,58	1,36
45	0	581	333	1,88	1,74	1,51
45	5	687	361	1,99	1,91	1,65
45	7,2	737	373	2,04	1,98	1,71
45	10	804	389	2,10	2,07	1,79

50	-25	176	209	1,45	0,84	0,73
50	-20	225	236	1,53	0,96	0,83
50	-15	285	263	1,62	1,08	0,93
50	-10	354	291	1,72	1,21	1,05
50	-5	433	320	1,83	1,35	1,17
50	0	521	350	1,94	1,49	1,29
50	5	620	380	2,07	1,63	1,41
50	7,2	667	393	2,12	1,70	1,47
50	10	729	410	2,20	1,78	1,53

55	-25	155	211	1,45	0,74	0,64
55	-20	197	241	1,55	0,82	0,71
55	-15	248	271	1,65	0,92	0,79
55	-10	310	302	1,76	1,03	0,89
55	-5	381	333	1,88	1,14	0,99
55	0	462	366	2,01	1,26	1,09
55	5	553	398	2,15	1,39	1,20
55	7,2	596	413	2,21	1,44	1,25
55	10	653	432	2,30	1,51	1,31

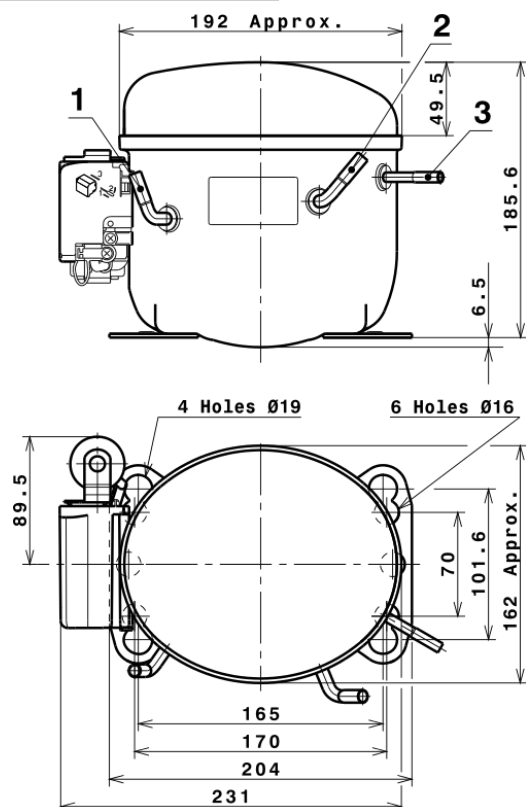
60	-25	135	213	1,46	0,63	0,55
60	-20	168	246	1,56	0,69	0,59
60	-15	212	279	1,67	0,76	0,66
60	-10	266	312	1,80	0,85	0,73
60	-5	329	347	1,93	0,95	0,82
60	0	402	382	2,08	1,05	0,91
60	5	485	417	2,23	1,16	1,00
60	7,2	525	433	2,31	1,21	1,05
60	10	578	454	2,40	1,27	1,10

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.118,7022837833	193,8676620496	1,2437486480	21,978241785236
2	34,2689464033	0,4514582004	-0,0005344768	0,78652945465909
3	-12,3756816638	3,3289501534	0,0147826507	-0,10640892349441
4	0,1864478995	0,0176025209	0,0002291083	0,0085881953267994
5	-0,3269706592	0,1166828757	0,0005414841	-0,0023549020859927

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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COMPRESSOR DIMENSIONS

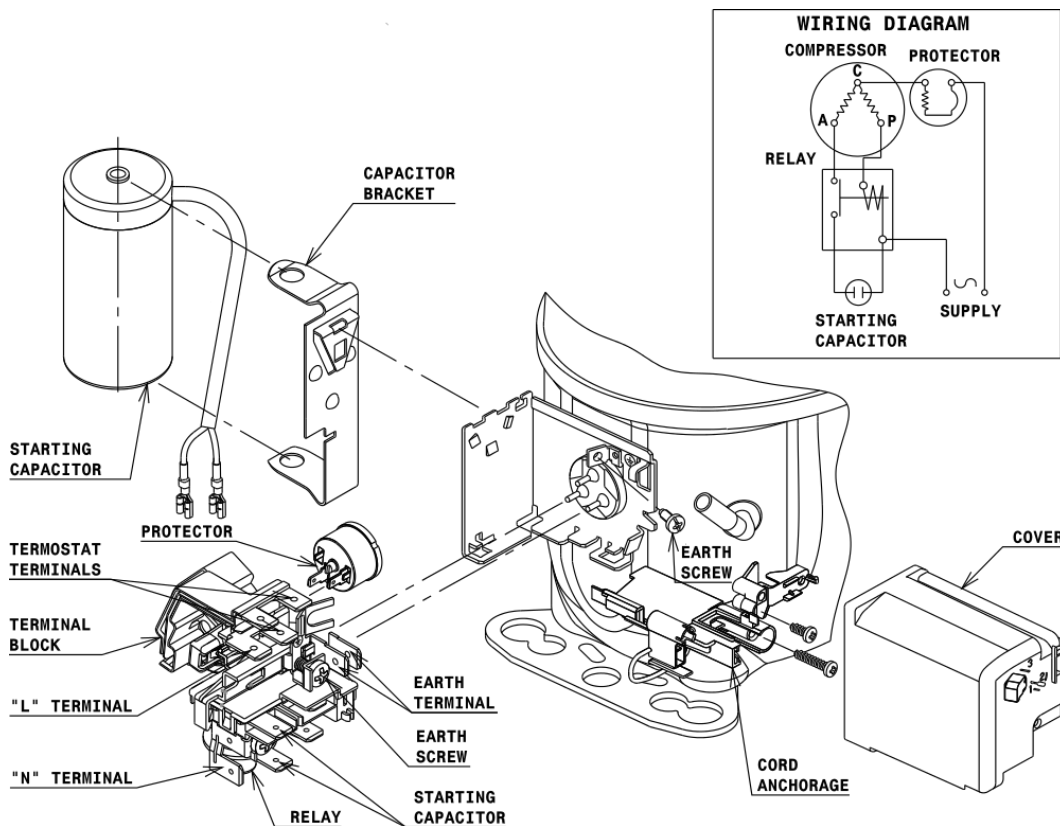


DESIGNATION INTERNAL DIAM.

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

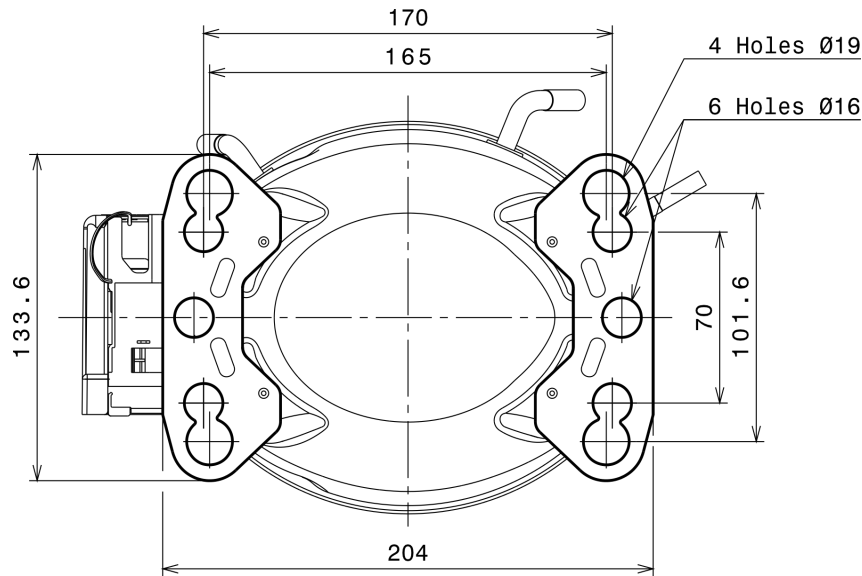
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



Technical Data Sheet

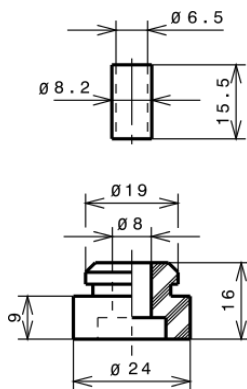
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

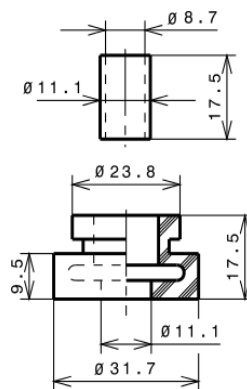
STANDARD

Ø16 holes (170x70 net)



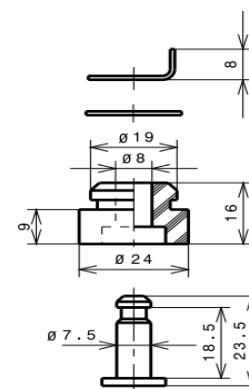
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R404A HMBP

