

Technical Data Sheet

Compressor model **MLY80RDa**
 Voltage **115V 60Hz ~1**
 Refrigerant **R404A**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	8,10 cm ³	Nominal Power	3/8 hp
Refrigerant	R404A	Diameter	24,29 mm	Voltage/Frequency	115V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	17,47 mm	Voltage range	98-132 V
Expansion	Capillar/Valve	Net Weight	11,21 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	350 cm ³	Locked Rotor Amps (LRA)	40,00 A
				Max. Cont. Current (MCC)	10,00 A
				Main W. resist. at 25°C	1,04 Ω
				Start W. resist. at 25°C	6,66 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	1.330 kCal/h	1.224 W
COP	2,15 W/W	1,75 W/W
EER	1,85 kCal/Wh	1,51 kCal/Wh
Input Power	720 W	700 W
Current	7,55 A	7,40 A



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	115 V 60 Hz	115 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	250 µF 160 V			
Relay	Option 1			
Reference	2014 184.			
Pick-Up	18,70 A			
Drop-Out	15,60 A			
Protector	Option 1	Option 2		
Reference	MRA38123	T0534		
Current	22,00 A	20,00 A		
Time check	7,5-14 seg	7,5-14 seg		
Disc temp. (Open/Close)	105,00 / 52,00 °C	105,00 / 52,00 °C		

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	436	377	5,28	1,35	1,16
40	-20	575	416	5,51	1,61	1,38
40	-15	736	457	5,75	1,88	1,61
40	-10	919	497	6,01	2,15	1,85
40	-5	1.125	538	6,27	2,43	2,09
40	0	1.353	580	6,55	2,71	2,33
40	5	1.603	622	6,84	3,00	2,58
40	7,2	1.720	641	6,97	3,12	2,69
40	10	1.875	664	7,14	3,28	2,82

45	-25	400	372	5,25	1,25	1,08
45	-20	524	417	5,51	1,46	1,26
45	-15	671	462	5,79	1,69	1,45
45	-10	840	507	6,07	1,93	1,66
45	-5	1.031	553	6,37	2,17	1,86
45	0	1.244	599	6,68	2,41	2,08
45	5	1.479	646	7,01	2,66	2,29
45	7,2	1.590	667	7,16	2,77	2,38
45	10	1.737	694	7,35	2,91	2,50

50	-25	364	368	5,23	1,15	0,99
50	-20	474	417	5,51	1,32	1,14
50	-15	606	467	5,82	1,51	1,30
50	-10	760	517	6,14	1,71	1,47
50	-5	936	568	6,47	1,92	1,65
50	0	1.135	619	6,82	2,13	1,83
50	5	1.356	671	7,19	2,35	2,02
50	7,2	1.460	694	7,35	2,45	2,11
50	10	1.599	723	7,57	2,57	2,21

55	-25	328	363	5,20	1,05	0,90
55	-20	423	417	5,52	1,18	1,01
55	-15	540	472	5,85	1,33	1,15
55	-10	680	527	6,20	1,50	1,29
55	-5	842	583	6,57	1,68	1,45
55	0	1.026	639	6,96	1,87	1,61
55	5	1.232	695	7,36	2,06	1,77
55	7,2	1.330	720	7,55	2,15	1,85
55	10	1.461	752	7,79	2,26	1,94

60	-25	292	359	5,17	0,95	0,81
60	-20	372	418	5,52	1,04	0,89
60	-15	475	477	5,88	1,16	1,00
60	-10	600	537	6,26	1,30	1,12
60	-5	747	597	6,67	1,46	1,25
60	0	917	658	7,10	1,62	1,39
60	5	1.109	719	7,55	1,79	1,54
60	7,2	1.200	747	7,75	1,87	1,61
60	10	1.323	781	8,02	1,97	1,69

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	457	379	5,29	1,21	1,04
40	-20	606	419	5,52	1,45	1,25
40	-15	777	459	5,77	1,69	1,46
40	-10	969	500	6,03	1,94	1,67
40	-5	1.183	542	6,30	2,18	1,89
40	0	1.419	584	6,58	2,43	2,10
40	5	1.676	627	6,87	2,68	2,31
40	7,2	1.796	645	7,01	2,78	2,40
40	10	1.955	670	7,18	2,92	2,52

45	-25	414	374	5,26	1,11	0,96
45	-20	545	419	5,53	1,30	1,12
45	-15	698	464	5,80	1,50	1,30
45	-10	873	510	6,09	1,71	1,48
45	-5	1.069	557	6,40	1,92	1,66
45	0	1.286	604	6,71	2,13	1,84
45	5	1.525	651	7,05	2,34	2,02
45	7,2	1.638	672	7,20	2,44	2,11
45	10	1.786	699	7,39	2,56	2,21

50	-25	371	370	5,24	1,00	0,87
50	-20	485	419	5,53	1,16	1,00
50	-15	619	470	5,83	1,32	1,14
50	-10	776	520	6,16	1,49	1,29
50	-5	954	572	6,49	1,67	1,44
50	0	1.154	623	6,85	1,85	1,60
50	5	1.375	676	7,22	2,03	1,76
50	7,2	1.479	699	7,39	2,12	1,83
50	10	1.618	728	7,61	2,22	1,92

55	-25	329	365	5,21	0,90	0,78
55	-20	424	420	5,53	1,01	0,87
55	-15	541	475	5,87	1,14	0,98
55	-10	679	530	6,22	1,28	1,11
55	-5	839	586	6,60	1,43	1,24
55	0	1.021	643	6,99	1,59	1,37
55	5	1.224	700	7,40	1,75	1,51
55	7,2	1.320	726	7,59	1,82	1,57
55	10	1.449	758	7,84	1,91	1,65

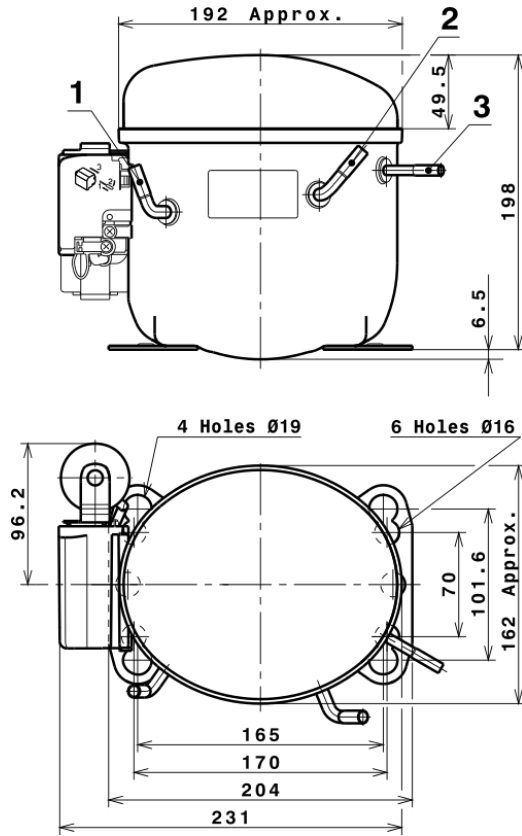
60	-25	286	361	5,19	0,79	0,68
60	-20	363	420	5,53	0,86	0,75
60	-15	462	480	5,90	0,96	0,83
60	-10	582	540	6,29	1,08	0,93
60	-5	724	601	6,70	1,20	1,04
60	0	888	663	7,13	1,34	1,16
60	5	1.073	725	7,59	1,48	1,28
60	7,2	1.162	752	7,79	1,54	1,33
60	10	1.280	787	8,06	1,63	1,41

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	2.481,7113960806	438,5001011911	5,4315835181	48,878837935857
2	77,9057426523	0,9976405594	0,0066068840	1,7909934375156
3	-27,5136877481	4,0816121696	0,0309464365	-0,2404625943607
4	0,4089335385	0,0179045909	0,0004622375	0,018915419656354
5	-0,7531519810	0,2003335303	0,0014514809	-0,0058357194525332

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

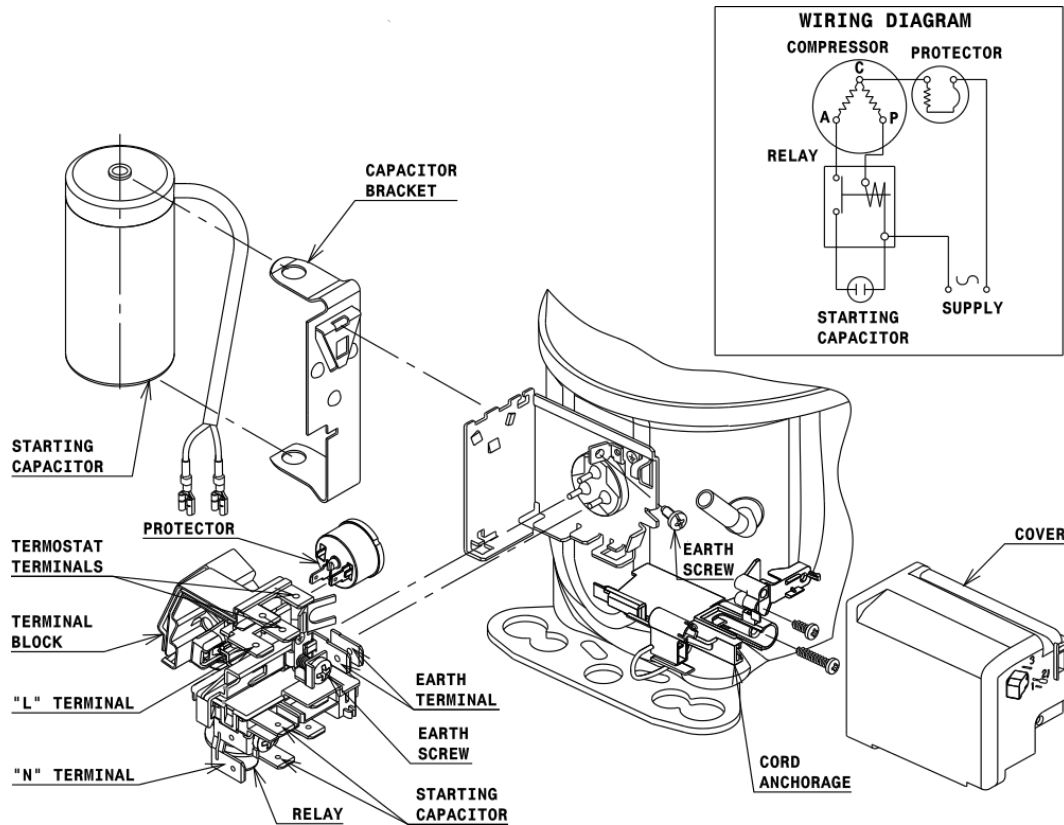


DESIGNATION INTERNAL DIAM.

DESIGNATION	INTERNAL DIAM.
1 Suction	6,5 mm
2 Service	6,5 mm
3 Discharge	4,9 mm

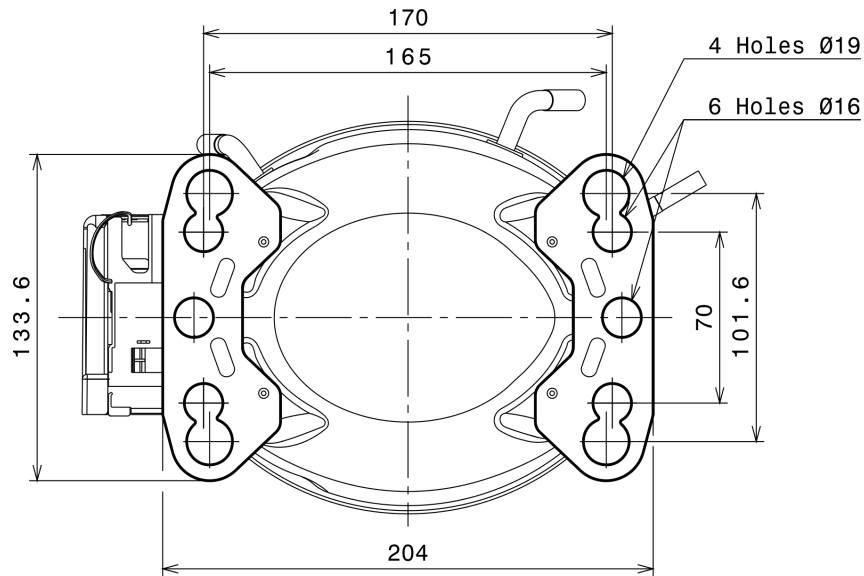
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



Technical Data Sheet

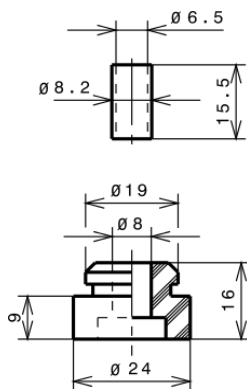
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

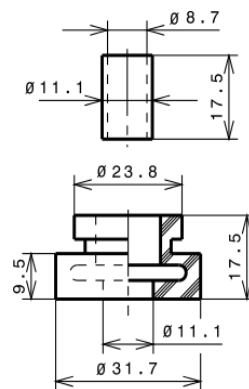
STANDARD

Ø16 holes (170x70 net)



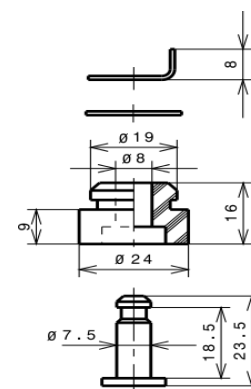
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R404A HMBP

