

Technical Data Sheet

Compressor model **MLY80RAb**
 Voltage **220-240V 50Hz ~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	220-240V 50Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	17,47 mm	Voltage range	187-264 V
Expansion	Capillar/Valve	Net Weight	11,39 Kg	Type	CSR
Comp. Cooling	Fan cooled	Oil type	ISO VG 32 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	400 cm ³	Locked Rotor Amps (LRA)	14,00 A
				Max. Cont. Current (MCC)	4,90 A
				Main W. resist. at 25°C	5,69 Ω
				Start W. resist. at 25°C	11,60 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	1.140 kCal/h	1.049 W
COP	2,46 W/W	1,99 W/W
EER	2,11 kCal/Wh	1,72 kCal/Wh
Input Power	540 W	527 W
Current	2,70 A	2,64 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	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	64- 77 μF 330 V		
Run capacitor	10 μF 420 V		
Relay	Option 1		
Reference	2014 149. + NTC15Ω		
Pick-Up	7,70 A		
Drop-Out	6,50 A		
Protector	Option 1	Option 2	
Reference	MRA38145	T0266	
Current	14,90 A	11,00 A	
Time check	2,8-5,2 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	385	287	1,67	1,56	1,34
40	-20	500	312	1,76	1,86	1,60
40	-15	635	338	1,86	2,19	1,88
40	-10	790	363	1,96	2,53	2,17
40	-5	964	389	2,06	2,88	2,48
40	0	1.157	414	2,17	3,25	2,80
40	5	1.370	439	2,27	3,63	3,12
40	7,2	1.470	450	2,32	3,80	3,27
40	10	1.603	464	2,37	4,02	3,45

45	-25	350	290	1,68	1,40	1,21
45	-20	454	320	1,79	1,65	1,42
45	-15	577	349	1,91	1,92	1,65
45	-10	720	379	2,02	2,21	1,90
45	-5	882	408	2,14	2,51	2,16
45	0	1.064	438	2,26	2,83	2,43
45	5	1.265	467	2,39	3,15	2,71
45	7,2	1.360	480	2,44	3,30	2,83
45	10	1.486	496	2,51	3,48	2,99

50	-25	315	293	1,69	1,25	1,08
50	-20	407	327	1,82	1,45	1,25
50	-15	519	361	1,95	1,67	1,44
50	-10	650	394	2,09	1,92	1,65
50	-5	801	428	2,22	2,18	1,87
50	0	971	462	2,36	2,45	2,10
50	5	1.160	495	2,51	2,73	2,34
50	7,2	1.250	510	2,57	2,85	2,45
50	10	1.370	529	2,65	3,01	2,59

55	-25	280	296	1,70	1,10	0,95
55	-20	360	334	1,85	1,26	1,08
55	-15	460	372	2,00	1,44	1,24
55	-10	580	410	2,15	1,65	1,41
55	-5	719	448	2,31	1,87	1,61
55	0	878	486	2,47	2,10	1,81
55	5	1.056	523	2,63	2,35	2,02
55	7,2	1.140	540	2,70	2,46	2,11
55	10	1.253	561	2,79	2,60	2,23

60	-25	245	299	1,71	0,95	0,82
60	-20	314	341	1,88	1,07	0,92
60	-15	402	383	2,04	1,22	1,05
60	-10	510	426	2,21	1,39	1,20
60	-5	637	468	2,39	1,59	1,36
60	0	784	510	2,57	1,79	1,54
60	5	951	552	2,75	2,00	1,72
60	7,2	1.030	570	2,83	2,10	1,81
60	10	1.136	593	2,94	2,23	1,92

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	403	289	1,67	1,40	1,21
40	-20	528	314	1,77	1,68	1,45
40	-15	671	340	1,87	1,97	1,71
40	-10	833	365	1,97	2,28	1,97
40	-5	1.014	391	2,07	2,59	2,24
40	0	1.214	417	2,18	2,91	2,52
40	5	1.433	442	2,28	3,24	2,80
40	7,2	1.535	453	2,33	3,39	2,93
40	10	1.671	468	2,39	3,57	3,09

45	-25	362	292	1,68	1,24	1,07
45	-20	472	321	1,80	1,47	1,27
45	-15	601	351	1,91	1,71	1,48
45	-10	748	381	2,03	1,96	1,70
45	-5	915	411	2,15	2,23	1,92
45	0	1.100	441	2,28	2,50	2,16
45	5	1.305	471	2,40	2,77	2,40
45	7,2	1.401	484	2,46	2,90	2,50
45	10	1.528	500	2,53	3,05	2,64

50	-25	321	295	1,69	1,09	0,94
50	-20	417	329	1,83	1,27	1,09
50	-15	531	363	1,96	1,46	1,26
50	-10	664	397	2,10	1,67	1,45
50	-5	816	431	2,24	1,89	1,64
50	0	987	465	2,38	2,12	1,83
50	5	1.177	499	2,52	2,36	2,04
50	7,2	1.266	514	2,59	2,46	2,13
50	10	1.386	533	2,67	2,60	2,25

55	-25	280	298	1,71	0,94	0,81
55	-20	361	336	1,85	1,07	0,93
55	-15	461	374	2,01	1,23	1,06
55	-10	579	413	2,16	1,40	1,21
55	-5	717	451	2,32	1,59	1,37
55	0	873	489	2,48	1,79	1,54
55	5	1.049	527	2,64	1,99	1,72
55	7,2	1.132	544	2,72	2,08	1,80
55	10	1.243	566	2,81	2,20	1,90

60	-25	240	301	1,72	0,80	0,69
60	-20	306	343	1,88	0,89	0,77
60	-15	391	386	2,05	1,01	0,88
60	-10	495	428	2,22	1,16	1,00
60	-5	618	471	2,40	1,31	1,13
60	0	760	513	2,58	1,48	1,28
60	5	920	556	2,77	1,66	1,43
60	7,2	997	574	2,85	1,74	1,50
60	10	1.100	598	2,96	1,84	1,59

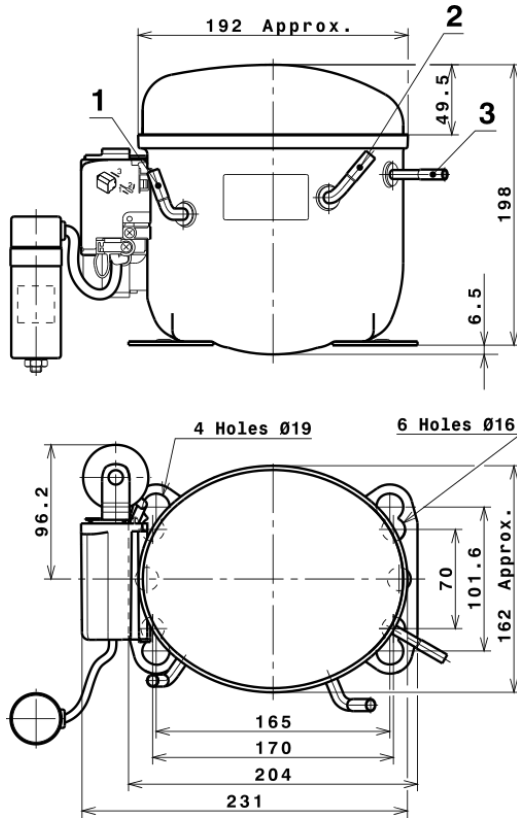
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	2.123,4126478547	229,5924341913	1,3509652823	41,753008087198
2	65,0692506749	-1,5242376526	-0,0077264526	1,4842036657486
3	-23,5460478342	4,9934252301	0,0217082903	-0,20462457186498
4	0,3587603633	0,0049785297	0,0000950626	0,01650788742581
5	-0,6112381783	0,1750243136	0,0007737264	-0,0039595139602085

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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Technical Data Sheet

COMPRESSOR DIMENSIONS

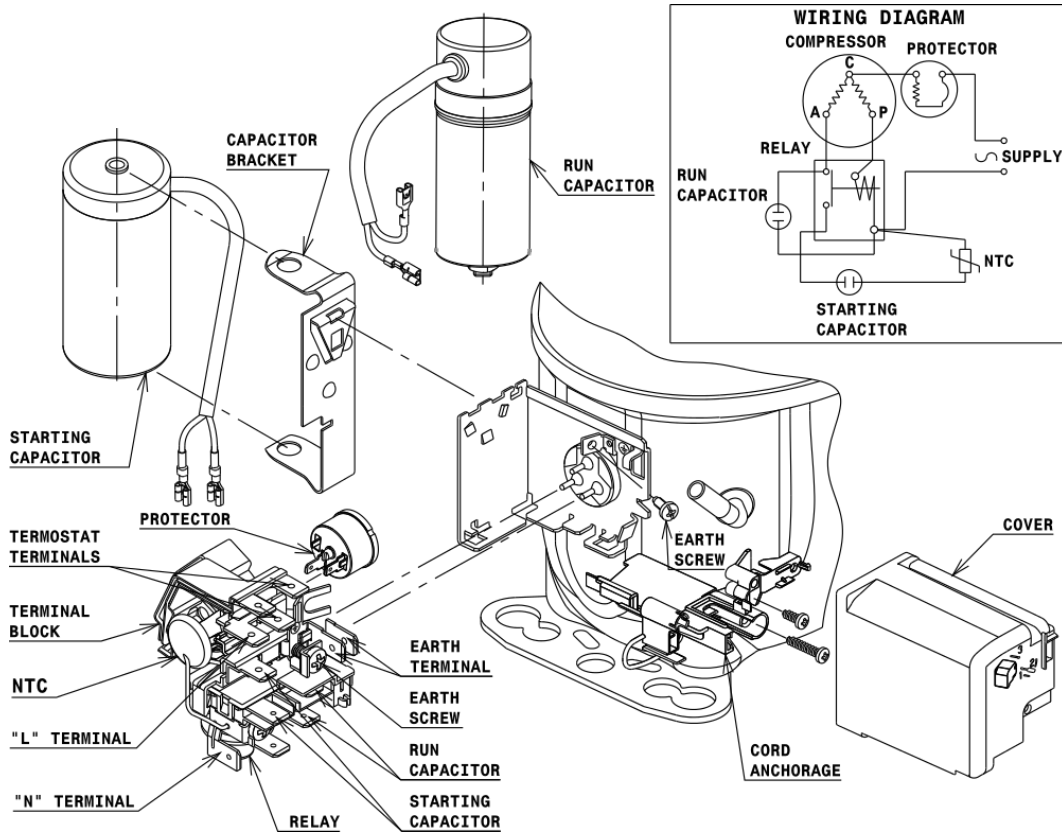


DESIGNATION INTERNAL DIAM.

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

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + NTC) (L, P ranges)



FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

$\varnothing 16$ holes (170x70 net)



AMERICAN FEET

$\varnothing 19$ holes (165x101.6 net)



SNAP-ON

$\varnothing 16$ holes (170x70 net)



SOA

SOA R404A HMBP

