

Technical Data Sheet

Compressor model **MLY12LRb**
 Voltage **115-127V 60Hz ~1**
 Refrigerant **R404A**

APPLICATION

COMPRESSOR

MOTOR

Application	Low Back Pressure	Displacement	10,70 cm ³	Nominal Power	3/8 hp
Refrigerant	R404A	Diameter	25,40 mm	Voltage/Frequency	115-127V 60Hz
Evaporating Temp.	-40,0 °C to -10,0 °C	Stroke	21,12 mm	Voltage range	98-140 V
Expansion	Capillar/Valve	Net Weight	11,11 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)	42,00 A
				Max. Cont. Current (MCC)	7,90 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	600 kCal/h	476 W
COP	1,41 W/W	1,00 W/W
EER	1,21 kCal/Wh	0,87 kCal/Wh
Input Power	496 W	474 W
Current	4,97 A	4,80 A



TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (A)
Evaporating temp. (T _e)	-23,3 °C	-25,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	32,0 °C	55,0 °C
Ambient temp. (T _{amb.})	32,0 °C	32,0 °C
Suction temp. (T _{suction})	32,0 °C	32,0 °C
Voltage/Frequency	115 V 60 Hz	115 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	250 µF 160 V			
Run capacitor	15 µF 250 V			
Relay	Option 1			
Reference	2014 187. + NTC3Ω			
Pick-Up	20.30 A			
Drop-Out	17.25 A			
Protector	Option 1			
Reference	T0258			
Current	23,50 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	120,00 / 52,00 °C			

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	266	287	3,58	1,08	0,93
40	-35	358	337	3,87	1,24	1,06
40	-30	468	388	4,19	1,40	1,21
40	-25	597	440	4,55	1,58	1,36
40	-23,3	645	458	4,68	1,64	1,41
40	-20	745	494	4,95	1,75	1,51
40	-15	910	549	5,40	1,93	1,66
40	-10	1.094	605	5,88	2,10	1,81

45	-40	254	287	3,58	1,03	0,89
45	-35	345	341	3,89	1,18	1,01
45	-30	455	396	4,24	1,34	1,15
45	-25	583	452	4,63	1,50	1,29
45	-23,3	630	471	4,78	1,56	1,34
45	-20	729	509	5,07	1,67	1,43
45	-15	893	567	5,56	1,83	1,57
45	-10	1.076	627	6,09	2,00	1,72

50	-40	243	287	3,58	0,98	0,84
50	-35	333	344	3,91	1,12	0,97
50	-30	441	403	4,29	1,27	1,09
50	-25	568	463	4,72	1,43	1,23
50	-23,3	615	483	4,87	1,48	1,27
50	-20	713	524	5,19	1,58	1,36
50	-15	876	586	5,72	1,74	1,50
50	-10	1.058	650	6,30	1,89	1,63

55	-40	231	287	3,58	0,94	0,80
55	-35	320	348	3,94	1,07	0,92
55	-30	427	411	4,34	1,21	1,04
55	-25	553	474	4,80	1,36	1,17
55	-23,3	600	496	4,97	1,41	1,21
55	-20	697	539	5,32	1,50	1,29
55	-15	859	605	5,89	1,65	1,42
55	-10	1.040	672	6,52	1,80	1,55

60	-40	220	287	3,58	0,89	0,76
60	-35	307	352	3,96	1,02	0,87
60	-30	414	418	4,39	1,15	0,99
60	-25	538	485	4,89	1,29	1,11
60	-23,3	585	509	5,07	1,34	1,15
60	-20	681	554	5,44	1,43	1,23
60	-15	842	624	6,06	1,57	1,35
60	-10	1.022	695	6,74	1,71	1,47

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	282	287	3,58	0,98	0,85
40	-35	391	337	3,87	1,16	1,00
40	-30	515	388	4,19	1,33	1,15
40	-25	654	440	4,55	1,49	1,28
40	-23,3	705	458	4,68	1,54	1,33
40	-20	809	494	4,95	1,64	1,42
40	-15	979	549	5,40	1,78	1,54
40	-10	1.164	605	5,88	1,92	1,66

45	-40	254	287	3,58	0,89	0,77
45	-35	353	341	3,89	1,04	0,89
45	-30	466	396	4,24	1,18	1,02
45	-25	595	452	4,63	1,32	1,14
45	-23,3	642	471	4,78	1,36	1,18
45	-20	739	509	5,07	1,45	1,25
45	-15	898	567	5,56	1,58	1,37
45	-10	1.072	627	6,09	1,71	1,48

50	-40	227	287	3,58	0,79	0,68
50	-35	315	344	3,91	0,91	0,79
50	-30	418	403	4,29	1,04	0,90
50	-25	536	463	4,72	1,16	1,00
50	-23,3	579	483	4,87	1,20	1,04
50	-20	669	524	5,19	1,28	1,10
50	-15	818	586	5,72	1,39	1,21
50	-10	981	650	6,30	1,51	1,31

55	-40	200	287	3,58	0,70	0,60
55	-35	277	348	3,94	0,79	0,69
55	-30	369	411	4,34	0,90	0,78
55	-25	476	474	4,80	1,00	0,87
55	-23,3	516	496	4,97	1,04	0,90
55	-20	599	539	5,32	1,11	0,96
55	-15	737	605	5,89	1,22	1,05
55	-10	890	672	6,52	1,32	1,14

60	-40	172	287	3,58	0,60	0,52
60	-35	239	352	3,96	0,68	0,59
60	-30	320	418	4,39	0,77	0,66
60	-25	417	485	4,89	0,86	0,74
60	-23,3	454	509	5,07	0,89	0,77
60	-20	529	554	5,44	0,96	0,83
60	-15	656	624	6,06	1,05	0,91
60	-10	799	695	6,74	1,15	0,99

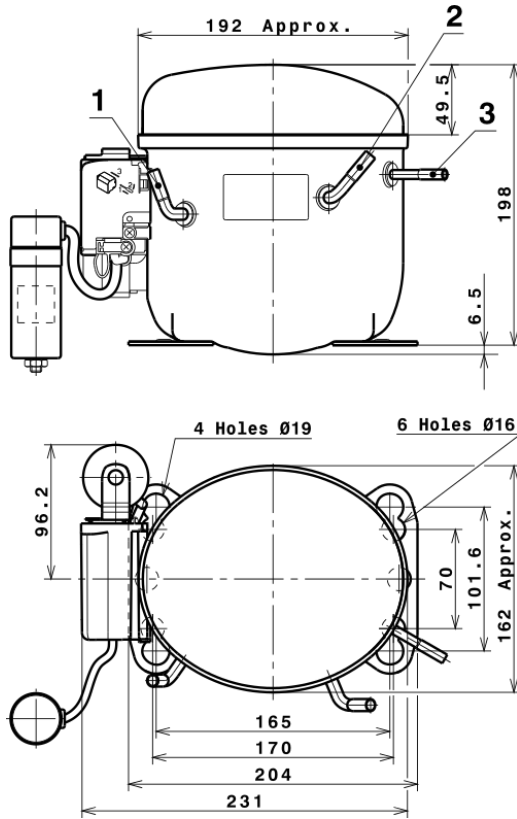
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	2.461,5842807704	494,6482808767	4,9087073719	49,332852730701
2	60,7259574221	6,1562470155	0,0804879374	1,452232935609
3	-23,3360091956	6,1610680633	0,0599825592	-0,12481575985234
4	0,2878391976	0,0280975476	0,0012036628	0,011714145613505
5	-0,4454856294	0,1540267016	0,0014995640	-0,0014918679989069

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

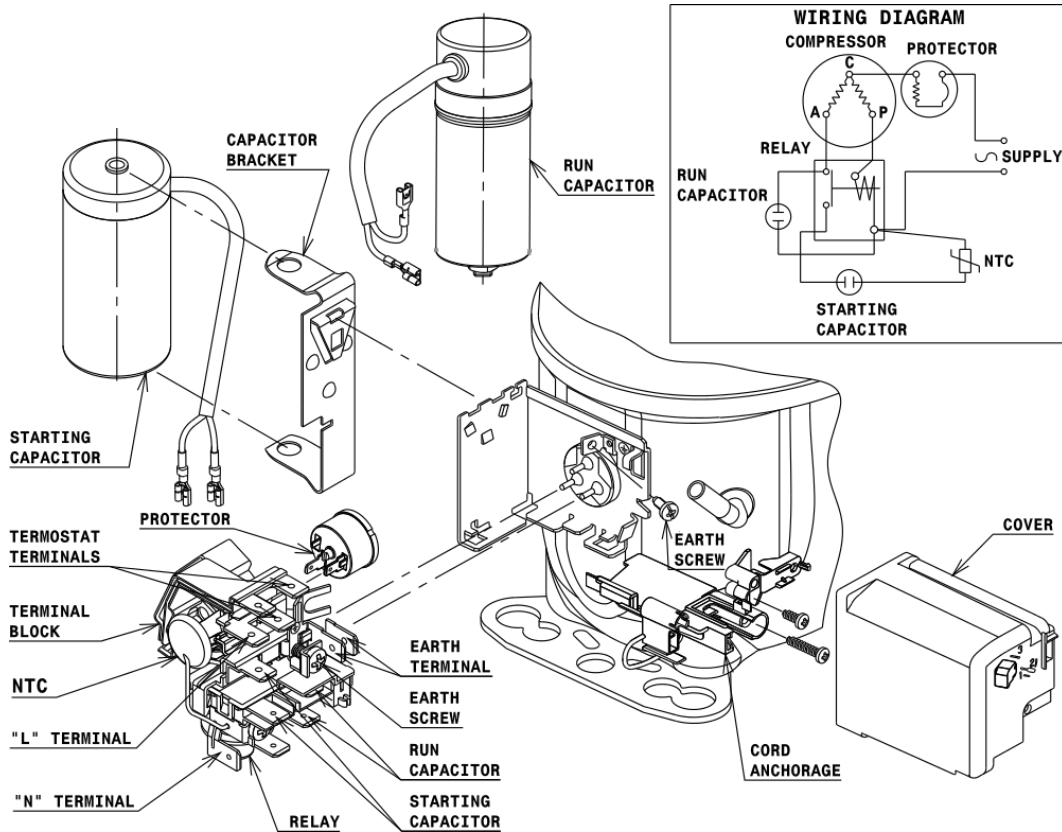
COMPRESSOR DIMENSIONS



DESIGNATION	INTERNAL DIAM.
1 Suction	8,1 mm
2 Service	8,1 mm
3 Discharge	6,5 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + NTC) (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 LBP

