

# Technical Data Sheet

Compressor model **MLY12LFb**  
 Voltage **208-230V 60Hz ~1**  
 Refrigerant **R404A**

APPLICATION		COMPRESSOR		MOTOR	
Application	Low Back Pressure	Displacement	10,70 cm <sup>3</sup>	Nominal Power	3/8 hp
Refrigerant	R404A	Diameter	25,40 mm	Voltage/Frequency	208-230V 60Hz
Evaporating Temp.	-40,0 °C to -10,0 °C	Stroke	21,11 mm	Voltage range	187-253 V
Expansion	Capillar/Valve	Net Weight	11,16 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 <sup>3</sup>	Locked Rotor Amps (LRA)	23,00 A
				Max. Cont. Current (MCC)	4,80 A
				Main W. resist. at 25°C	3,29 Ω
				Start W. resist. at 25°C	18,30 Ω

## NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	572 kCal/h	451 W
COP	1,33 W/W	0,94 W/W
EER	1,14 kCal/Wh	0,81 kCal/Wh
Input Power	502 W	481 W
Current	2,47 A	2,39 A

## APPROVALS

## TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (A)
Evaporating temp. (T <sub>e</sub> )	-23,3 °C	-25,0 °C
Condensing temp. (T <sub>c</sub> )	55,0 °C	55,0 °C
Liquid temp. (T <sub>liq.</sub> )	32,0 °C	55,0 °C
Ambient temp. (T <sub>amb.</sub> )	32,0 °C	32,0 °C
Suction temp. (T <sub>suction</sub> )	32,0 °C	32,0 °C
Voltage/Frequency	230 V 60 Hz	230 V 60 Hz

## ELECTRICAL COMPONENTS

Starting capacitor	47- 56 μF 330 V			
Run capacitor	6 μF 400 V			
Relay	Option 1			
Reference	2014 170. + NTC15Ω			
Pick-Up	12,10 A			
Drop-Out	10,30 A			
Protector	Option 1			
Reference	T0267			
Current	11,00 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	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	-40	258	325	1,80	0,92	0,80
40	-35	342	368	1,96	1,08	0,93
40	-30	447	416	2,14	1,25	1,08
40	-25	574	467	2,33	1,43	1,23
40	-23,3	621	485	2,40	1,49	1,28
40	-20	721	522	2,55	1,61	1,38
40	-15	889	581	2,79	1,78	1,53
40	-10	1.079	644	3,05	1,95	1,68

45	-40	241	320	1,78	0,88	0,75
45	-35	325	367	1,95	1,03	0,89
45	-30	431	417	2,14	1,20	1,03
45	-25	557	472	2,35	1,37	1,18
45	-23,3	605	491	2,43	1,43	1,23
45	-20	705	530	2,58	1,55	1,33
45	-15	873	591	2,83	1,72	1,48
45	-10	1.063	657	3,10	1,88	1,62

50	-40	224	316	1,77	0,83	0,71
50	-35	308	365	1,95	0,98	0,84
50	-30	414	419	2,15	1,15	0,99
50	-25	541	476	2,37	1,32	1,14
50	-23,3	588	496	2,45	1,38	1,19
50	-20	688	537	2,61	1,49	1,28
50	-15	857	602	2,87	1,66	1,42
50	-10	1.047	671	3,16	1,82	1,56

55	-40	207	311	1,75	0,77	0,67
55	-35	292	364	1,94	0,93	0,80
55	-30	397	420	2,15	1,10	0,95
55	-25	524	481	2,39	1,27	1,09
55	-23,3	572	502	2,47	1,33	1,14
55	-20	672	545	2,64	1,43	1,23
55	-15	841	612	2,92	1,60	1,37
55	-10	1.031	684	3,22	1,75	1,51

60	-40	190	307	1,73	0,72	0,62
60	-35	275	362	1,94	0,88	0,76
60	-30	381	422	2,16	1,05	0,90
60	-25	508	485	2,40	1,22	1,05
60	-23,3	556	508	2,49	1,27	1,09
60	-20	656	552	2,67	1,38	1,19
60	-15	825	623	2,96	1,54	1,32
60	-10	1.015	698	3,28	1,69	1,46

## CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	273	325	1,80	0,84	0,73
40	-35	374	368	1,96	1,02	0,88
40	-30	494	416	2,14	1,19	1,03
40	-25	631	467	2,33	1,35	1,17
40	-23,3	682	485	2,40	1,40	1,21
40	-20	786	522	2,55	1,50	1,30
40	-15	958	581	2,79	1,65	1,42
40	-10	1.148	644	3,05	1,78	1,54

45	-40	241	320	1,78	0,75	0,65
45	-35	334	367	1,95	0,91	0,79
45	-30	444	417	2,14	1,06	0,92
45	-25	571	472	2,35	1,21	1,05
45	-23,3	619	491	2,43	1,26	1,09
45	-20	716	530	2,58	1,35	1,17
45	-15	879	591	2,83	1,49	1,28
45	-10	1.059	657	3,10	1,61	1,39

50	-40	210	316	1,77	0,67	0,58
50	-35	293	365	1,95	0,80	0,69
50	-30	393	419	2,15	0,94	0,81
50	-25	511	476	2,37	1,07	0,93
50	-23,3	555	496	2,45	1,12	0,97
50	-20	647	537	2,61	1,20	1,04
50	-15	800	602	2,87	1,33	1,15
50	-10	971	671	3,16	1,45	1,25

55	-40	179	311	1,75	0,58	0,50
55	-35	252	364	1,94	0,69	0,60
55	-30	343	420	2,15	0,82	0,71
55	-25	451	481	2,39	0,94	0,81
55	-23,3	492	502	2,47	0,98	0,85
55	-20	577	545	2,64	1,06	0,92
55	-15	721	612	2,92	1,18	1,02
55	-10	882	684	3,22	1,29	1,11

60	-40	148	307	1,73	0,48	0,42
60	-35	211	362	1,94	0,58	0,50
60	-30	293	422	2,16	0,69	0,60
60	-25	392	485	2,40	0,81	0,70
60	-23,3	429	508	2,49	0,85	0,73
60	-20	508	552	2,67	0,92	0,79
60	-15	642	623	2,96	1,03	0,89
60	-10	794	698	3,28	1,14	0,98

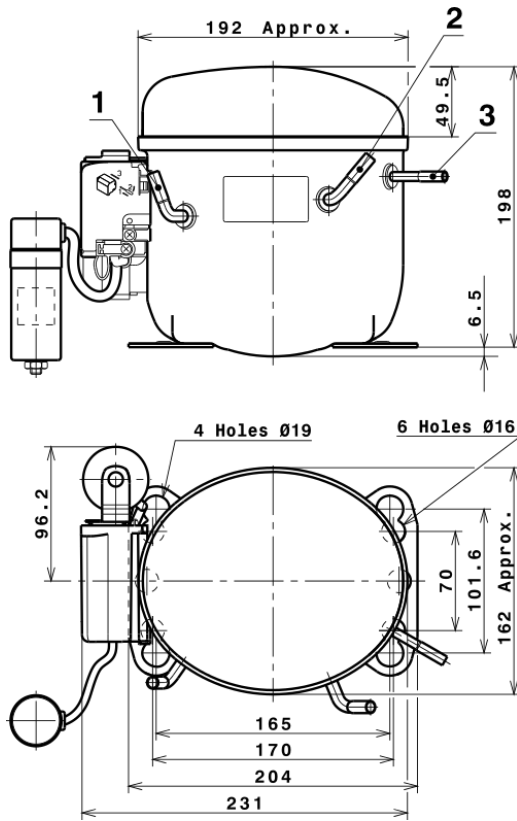
## EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	2.425,4390050456	642,4523265768	3,0619051462	48,431121524125
2	61,1431894382	10,0605128877	0,0466069560	1,4674536977173
3	-22,4066211992	4,0032831477	0,0170056941	-0,099221660157702
4	0,3332094091	0,0802812695	0,0004749119	0,013288182991549
5	-0,4043125479	0,1230802519	0,0005081981	-9,1475698251431E-5

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

## COMPRESSOR DIMENSIONS

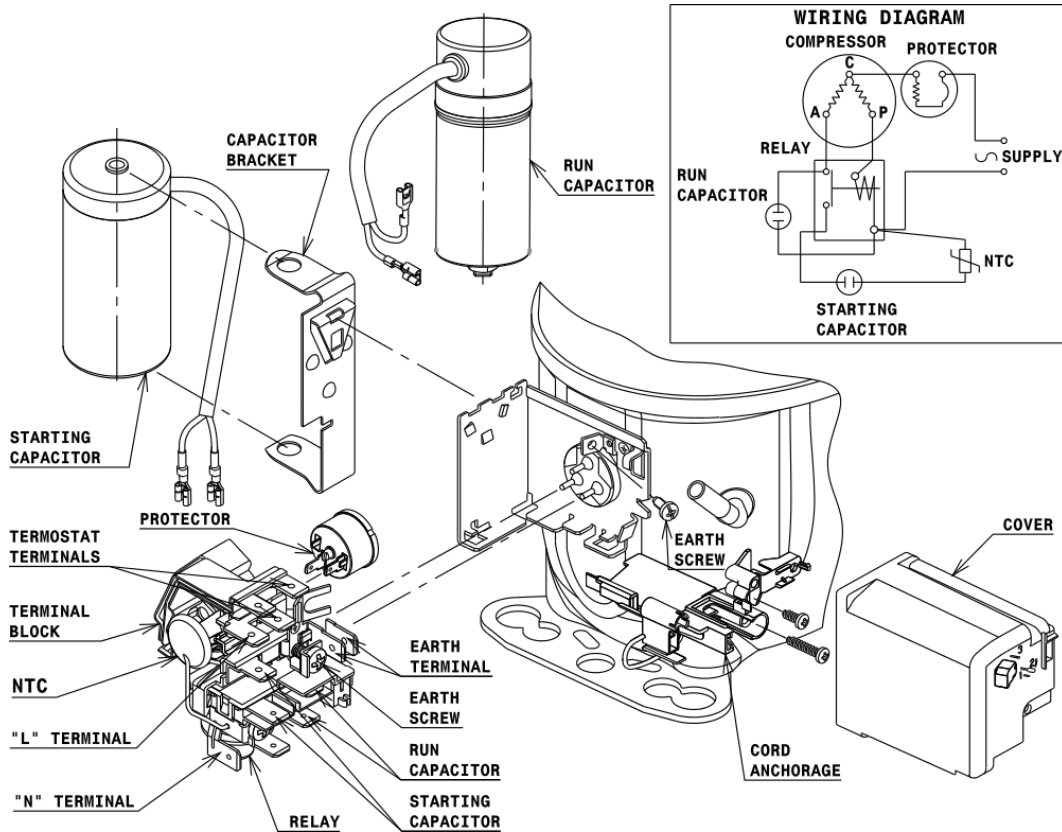


## DESIGNATION INTERNAL DIAM.

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

$\varnothing 16$  holes (170x70 net)



### AMERICAN FEET

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



### SNAP-ON

$\varnothing 16$  holes (170x70 net)



## SOA

SOA R404A LBP

