

Technical Data Sheet

Compressor model **HLY55MAb**
 Voltage **220-240V 50Hz ~1**
 Refrigerant **R600a**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	5,46 cm ³	Nominal Power	1/10 hp
Refrigerant	R600a	Diameter	20,88 mm	Voltage/Frequency	220-240V 50Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	15,93 mm	Voltage range	187-264 V
Expansion	Capillar	Net Weight	9,91 Kg	Type	RSCR
Comp. Cooling	Static	Oil type	ISO VG 10 MINER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	265 cm ³	Locked Rotor Amps (LRA)	7,60 A
				Max. Cont. Current (MCC)	1,20 A
				Main W. resist. at 25°C	23,25 Ω
				Start W. resist. at 25°C	24,35 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	255 kCal/h	250 W
COP	2,67 W/W	2,31 W/W
EER	2,30 kCal/Wh	1,99 kCal/Wh
Input Power	111 W	108 W
Current	0,55 A	0,54 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

Run capacitor	3 µF 400 V			
Relay	Option 1			
Reference	PTC K100			
Voltage	200-240 V			
Resistance	14.00 Ω			
Protector	Option 1	Option 2		
Reference	4TM222NFBYY	T0366		
Current	7,00 A	6,80 A		
Time check	5-15 seg	7,5-14 seg		
Disc temp. (Open/Close)	120,00 / 61,00 °C	120,00 / 62,00 °C		

This product is approved for R290 and R600a regarding explosion safety according to standard EN 60335-1 and EN 60335-2-34

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	65	56	0,30	1,35	1,16
40	-20	91	63	0,33	1,68	1,45
40	-15	121	70	0,36	2,03	1,74
40	-10	156	76	0,39	2,39	2,06
40	-5	196	82	0,42	2,77	2,38
40	0	239	88	0,44	3,16	2,72
40	5	287	94	0,47	3,57	3,07
40	7,2	310	96	0,48	3,76	3,23
40	10	340	99	0,49	4,00	3,44

45	-25	58	56	0,30	1,21	1,04
45	-20	83	64	0,33	1,51	1,30
45	-15	111	71	0,37	1,82	1,56
45	-10	144	78	0,40	2,14	1,84
45	-5	182	85	0,43	2,48	2,13
45	0	224	92	0,46	2,83	2,43
45	5	270	98	0,49	3,19	2,75
45	7,2	292	101	0,50	3,36	2,89
45	10	321	104	0,52	3,57	3,07

50	-25	52	56	0,30	1,07	0,92
50	-20	74	64	0,34	1,34	1,15
50	-15	101	73	0,37	1,61	1,39
50	-10	132	81	0,41	1,90	1,64
50	-5	168	88	0,44	2,21	1,90
50	0	208	96	0,48	2,52	2,17
50	5	252	103	0,51	2,85	2,45
50	7,2	273	106	0,53	3,00	2,58
50	10	301	110	0,54	3,19	2,74

55	-25	45	56	0,30	0,93	0,80
55	-20	66	65	0,34	1,17	1,00
55	-15	91	74	0,38	1,42	1,22
55	-10	120	83	0,42	1,68	1,45
55	-5	154	91	0,46	1,96	1,68
55	0	192	100	0,50	2,24	1,93
55	5	235	108	0,53	2,54	2,18
55	7,2	255	111	0,55	2,67	2,30
55	10	282	115	0,57	2,84	2,45

60	-25	38	56	0,30	0,80	0,68
60	-20	57	66	0,34	1,01	0,86
60	-15	80	76	0,39	1,23	1,06
60	-10	108	85	0,43	1,47	1,26
60	-5	140	95	0,47	1,72	1,48
60	0	176	104	0,51	1,98	1,70
60	5	217	112	0,56	2,25	1,94
60	7,2	237	116	0,57	2,37	2,04
60	10	263	121	0,60	2,53	2,18

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	70	56	0,30	1,25	1,08
40	-20	98	63	0,33	1,56	1,35
40	-15	131	70	0,36	1,88	1,62
40	-10	169	76	0,39	2,21	1,91
40	-5	212	83	0,42	2,56	2,21
40	0	259	89	0,45	2,92	2,52
40	5	310	94	0,47	3,30	2,85
40	7,2	335	97	0,48	3,47	2,99
40	10	367	100	0,50	3,69	3,18

45	-25	63	56	0,30	1,12	0,96
45	-20	89	64	0,34	1,39	1,20
45	-15	120	72	0,37	1,67	1,45
45	-10	155	79	0,40	1,97	1,70
45	-5	196	86	0,43	2,28	1,97
45	0	241	92	0,46	2,60	2,25
45	5	290	99	0,49	2,94	2,54
45	7,2	313	102	0,51	3,09	2,67
45	10	344	105	0,52	3,28	2,83

50	-25	55	56	0,30	0,98	0,85
50	-20	79	65	0,34	1,22	1,06
50	-15	108	73	0,38	1,48	1,28
50	-10	142	81	0,41	1,74	1,51
50	-5	180	89	0,45	2,02	1,75
50	0	222	96	0,48	2,31	2,00
50	5	270	104	0,51	2,61	2,25
50	7,2	292	107	0,53	2,74	2,37
50	10	322	110	0,55	2,92	2,52

55	-25	48	56	0,30	0,85	0,74
55	-20	70	66	0,34	1,06	0,92
55	-15	96	75	0,38	1,29	1,12
55	-10	128	83	0,42	1,53	1,32
55	-5	164	92	0,46	1,78	1,54
55	0	204	100	0,50	2,04	1,76
55	5	250	108	0,54	2,31	1,99
55	7,2	271	112	0,55	2,43	2,10
55	10	300	116	0,57	2,59	2,23

60	-25	40	56	0,30	0,72	0,62
60	-20	60	66	0,35	0,91	0,78
60	-15	85	76	0,39	1,11	0,96
60	-10	114	86	0,43	1,33	1,15
60	-5	148	95	0,48	1,55	1,34
60	0	186	104	0,52	1,79	1,55
60	5	229	113	0,56	2,03	1,76
60	7,2	250	117	0,58	2,14	1,85
60	10	277	121	0,60	2,28	1,97

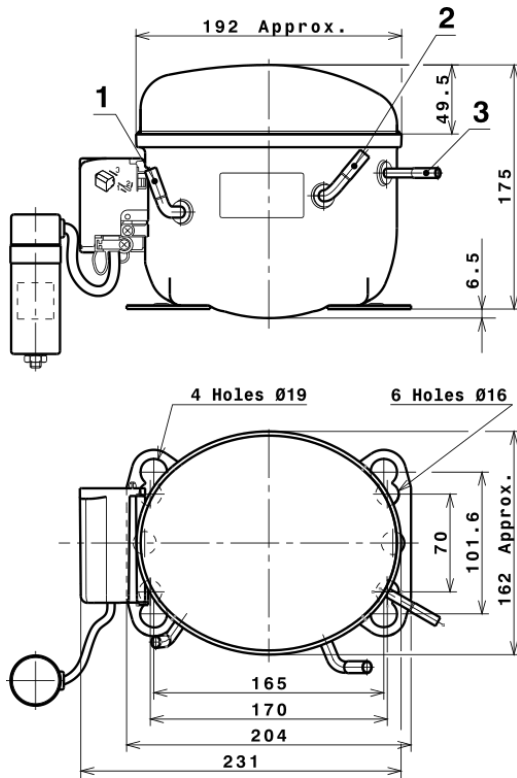
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	400,8726378395	58,5903299155	0,3028882091	3,8319539832931
2	13,2083963275	-0,0845597105	-0,0004476812	0,1346952521504
3	-3,6918935534	0,8001898424	0,0037710055	-0,018245224222995
4	0,0914242363	-0,0051197347	-0,0000120512	0,0013853236437595
5	-0,0883972042	0,0320075937	0,0001508402	-0,00023570473379648

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

COMPRESSOR DIMENSIONS

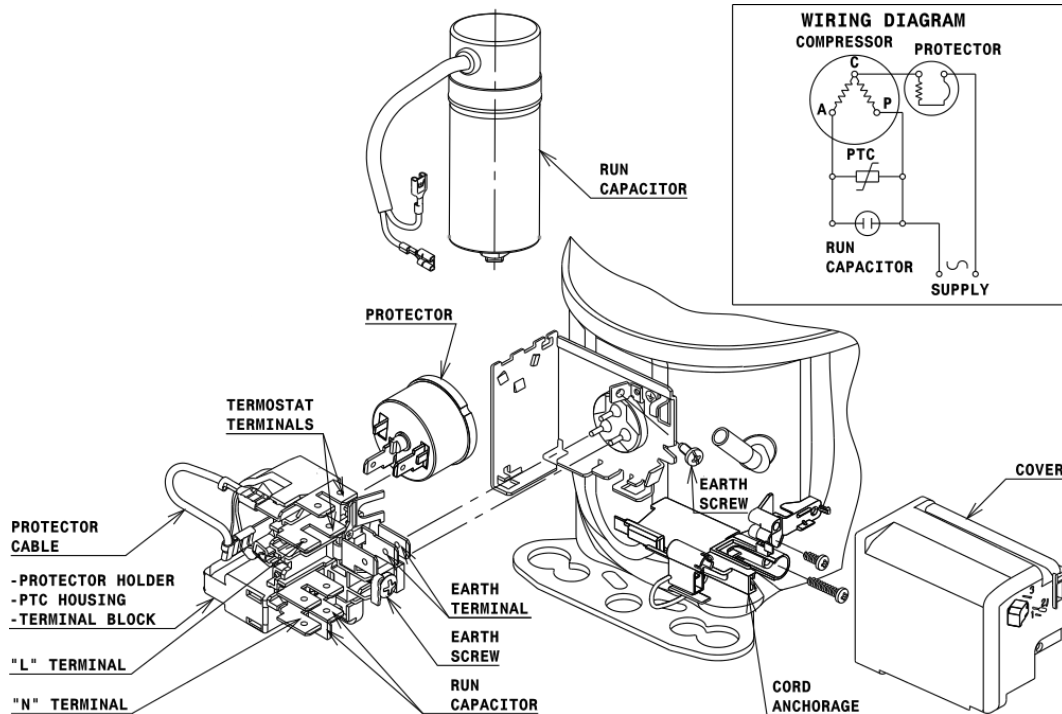


DESIGNATION INTERNAL DIAM.

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

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSCR CONNECTION (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 R600a HMBP

