compressor technical data

identification

model

FH4525Y-XC3A



*Non-contractual picture

summary

application
HBP

power supply
220 - 240V 1~ 50 Hz

refrigerant
R-134a / R-513A

horse-power
1-3/4 hp

motor type
CSR

test condition
EN12900

cooling capacity
5389 Watt (R-134a)

efficiency
2.85 Watt/W (R-134a)

technology
Reciprocating

sound power
70 dBA

certificates

nominal cooling capacity (*)

refrigerant	Frequency	power input (W)	refrig. capacity (Watt)	efficiency (Watt/W)
R-134a	50HZ	1888	5389	2.85
R-513A	50HZ	1978	5483	2.77

(*) Operating conditions EN12900 : Dew / T°Cond. 50°C / T°Evap 5°C / T°Return gas temp. 20°C / T°Subcooling 0K

general data

model	FH4525Y-XC3A
technology	reciprocating
compressor type	fix-speed
application	HBP
evaporating temp. range	-15°C to 15°C (5°F to 59°F)
horse power	1-3/4 hp

mechanical data

displacement	63 cm³
motor torque	high (HST)
compressor cooling	fan
oil type / viscosity	P.O.E. / 32 cSt@40°C
oil charge	1140 ml
weight	29.5 kg (65 lb)

Note : Tecumseh reserves the right to change information contained in this document without notification.

compressor technical data

electrical data

motor type	CSR
current MCC	14 A
current LRA	52 A
current RLA 50 Hz	9.33 A
main winding at 25 °C	1.31 ohms
start winding at 25 °C	3.8 ohms

electrical components

start capacitor	88-101 µF / 330 V
run capacitor	35 µF / 400 V
overload	15HM- 2311-148
• time check	2.0-10s / 56 A
• open temp / close temp	120 °C / 69 °C
potential relay	RVA 4G3D
• pick up / drop out	180-195 V / 40-105 V

dimensions

length	238 mm (9.4 in)
width	222 mm (8.7 in)
height	354 mm (13.9 in)

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compressor technical data

performance

operating conditions EN12900
conditions DEW

Return gas temp. : 20 °C
Subcooling : 0 K

50HZ R-134a

Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	1456	2101	2871	3788	4870	6141	7619	9325	11282
	Power Input	(W)	847	967	1081	1189	1292	1389	1483	1571	1656
	efficiency	(Watt/W)	1.72	2.17	2.66	3.19	3.77	4.42	5.14	5.93	6.81
	Amps	(A)	4.05	4.7	5.3	5.86	6.39	6.87	7.31	7.71	8.07
40	Refrig. Capacity	(Watt)	1026	1611	2297	3105	4056	5170	6469	7971	9700
	Power Input	(W)	833	986	1135	1280	1420	1557	1692	1823	1951
	efficiency	(Watt/W)	1.23	1.63	2.02	2.43	2.86	3.32	3.82	4.37	4.97
	Amps	(A)	3.77	4.6	5.38	6.13	6.83	7.5	8.12	8.71	9.25
50	Refrig. Capacity	(Watt)		1164	1771	2477	3301	4265	5389	6693	8200
	Power Input	(W)		966	1155	1341	1525	1707	1888	2067	2245
	efficiency	(Watt/W)		1.2	1.53	1.85	2.16	2.5	2.85	3.24	3.65
	Amps	(A)		4.47	5.44	6.36	7.25	8.1	8.91	9.67	10.4
60	Refrig. Capacity	(Watt)			1305	1914	2617	3436	4392	5504	6794
	Power Input	(W)			1144	1378	1611	1843	2075	2307	2540
	efficiency	(Watt/W)			1.14	1.39	1.63	1.86	2.12	2.39	2.67
	Amps	(A)			5.46	6.57	7.64	8.67	9.66	10.6	11.5

50HZ R-513A

Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	1677	2376	3184	4116	5190	6420	7822	9413	11209
	Power Input	(W)	941	1060	1170	1273	1376	1482	1596	1723	1867
	efficiency	(Watt/W)	1.78	2.24	2.72	3.23	3.77	4.33	4.9	5.46	6
	Amps	(A)	4.51	5.15	5.74	6.28	6.8	7.32	7.87	8.45	9.1
40	Refrig. Capacity	(Watt)	1153	1782	2504	3336	4294	5393	6650	8080	9699
	Power Input	(W)	909	1072	1222	1364	1502	1643	1788	1945	2116
	efficiency	(Watt/W)	1.27	1.66	2.05	2.45	2.86	3.28	3.72	4.15	4.58
	Amps	(A)	4.12	5	5.79	6.53	7.23	7.91	8.59	9.29	10
50	Refrig. Capacity	(Watt)		1265	1888	2605	3433	4387	5483	6738	8167
	Power Input	(W)		1030	1230	1421	1606	1790	1978	2174	2383
	efficiency	(Watt/W)		1.23	1.53	1.83	2.14	2.45	2.77	3.1	3.43
	Amps	(A)		4.75	5.79	6.74	7.64	8.49	9.33	10.2	11
60	Refrig. Capacity	(Watt)			1382	1970	2654	3449	4371	5437	6661
	Power Input	(W)			1197	1447	1688	1927	2166	2412	2668
	efficiency	(Watt/W)			1.15	1.36	1.57	1.79	2.02	2.25	2.5
	Amps	(A)			5.7	6.89	8.01	9.06	10.1	11.1	12.1

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