

identification

model

TC4419Y-UZ1B

summary



*Non-contractual picture

 **application**
CBP/HBP (M-HBP)

 **test condition**
EN12900

 **power supply**
230V 1~ 50 Hz
230V 1~ 60 Hz

 **cooling capacity**
399 Watt (R-134a)

 **refrigerant**
R-134a / R-513A

 **efficiency**
2.22 Watt/W (R-134a)

 **horse-power**
1/6 hp

 **technology**
Reciprocating

 **motor type**
CSIR

 **sound power**

certificates



nominal cooling capacity (*)

refrigerant	Frequency	power input (W)	refrig. capacity (Watt)	efficiency (Watt/W)
R-134a	50HZ	180	399	2.22
R-513A	50HZ	189	406	2.15

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

general data

model TC4419Y-UZ1B
technology reciprocating
compressor type fix-speed
application CBP/HBP (M-HBP)
evaporating temp. range -15°C to 15°C (5°F to 59°F)
horse power 1/6 hp
expansion device capillary tube

mechanical data

displacement 4.75 cm³
motor torque high (HST)
compressor cooling fan
oil type / viscosity P.O.E. / 32 cSt@40°C
oil charge 170 ml
weight 7.6 kg

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



electrical data

motor type	CSIR
current MCC	1.94 A
current LRA	9 A
current RLA 50 Hz	1.21 A
current RLA 60 Hz	1.27 A
main winding at 25 °C	18.2 ohms
start winding at 25 °C	16.1 ohms

electrical components

start capacitor	50-60 μ F / 330 V
overload	B100-130
• time check	6 - 16s / 10.0 A
• open temp / close temp	130 °C / 61 °C
current relay	QL2-5.0 B3 19F
• pick up / drop out	3 A / 2.56 A



performance

operating conditions EN12900

conditions DEW

50HZ R-134a

Return gas temp. : 20 °C

Subcooling : 0 K

Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	129	167	215	272	337	406	480	556	632
	Power Input	(W)	99.9	108	116	125	133	140	147	152	156
	efficiency	(Watt/W)	1.29	1.54	1.85	2.18	2.53	2.9	3.27	3.65	4.05
	Amps	(A)	0.9	0.91	0.92	0.94	0.96	0.99	1.02	1.05	1.08
40	Refrig. Capacity	(Watt)	106	145	193	248	309	374	440	507	572
	Power Input	(W)	104	113	124	134	144	155	164	173	181
	efficiency	(Watt/W)	1.02	1.28	1.56	1.85	2.14	2.42	2.68	2.93	3.17
	Amps	(A)	0.9	0.91	0.93	0.95	0.98	1.01	1.04	1.07	1.11
50	Refrig. Capacity	(Watt)		110	160	216	275	337	399	459	517
	Power Input	(W)		118	129	142	154	167	180	192	203
	efficiency	(Watt/W)		0.93	1.24	1.52	1.78	2.01	2.22	2.39	2.54
	Amps	(A)		0.92	0.94	0.97	1	1.03	1.07	1.11	1.15
60	Refrig. Capacity	(Watt)			109	168	229	290	350	407	459
	Power Input	(W)			135	150	165	180	196	211	226
	efficiency	(Watt/W)			0.8	1.12	1.39	1.61	1.79	1.93	2.03
	Amps	(A)			0.96	0.99	1.03	1.07	1.12	1.17	1.22

50HZ R-513A

Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	170	199	241	297	366	447	540	644	760
	Power Input	(W)	113	117	124	132	141	150	159	167	173
	efficiency	(Watt/W)	1.51	1.69	1.95	2.25	2.6	2.98	3.4	3.87	4.39
	Amps	(A)	1.15	1.07	1.03	1.03	1.04	1.07	1.1	1.11	1.11
40	Refrig. Capacity	(Watt)	140	167	207	258	320	394	477	571	674
	Power Input	(W)	117	123	132	142	153	164	175	185	193
	efficiency	(Watt/W)	1.2	1.36	1.57	1.82	2.1	2.4	2.73	3.1	3.5
	Amps	(A)	1.17	1.09	1.06	1.06	1.08	1.12	1.16	1.19	1.2
50	Refrig. Capacity	(Watt)		136	170	215	269	333	406	487	576
	Power Input	(W)		127	138	150	163	176	189	201	212
	efficiency	(Watt/W)		1.07	1.24	1.43	1.65	1.89	2.15	2.42	2.72
	Amps	(A)		1.1	1.07	1.08	1.11	1.16	1.21	1.25	1.28
60	Refrig. Capacity	(Watt)			142	178	222	275	335	401	474
	Power Input	(W)			145	160	175	190	206	220	233
	efficiency	(Watt/W)			0.98	1.11	1.27	1.44	1.63	1.83	2.04
	Amps	(A)			1.11	1.12	1.16	1.22	1.28	1.34	1.38

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performance

operating conditions EN12900

conditions DEW

60HZ R-134a

Return gas temp. : 20 °C

Subcooling : 0 K

Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	152	196	253	320	396	478	565	654	743
	Power Input	(W)	122	132	142	152	162	171	179	186	190
	efficiency	(Watt/W)	1.24	1.48	1.78	2.1	2.44	2.79	3.15	3.52	3.9
	Amps	(A)	0.96	0.97	0.98	1	1.03	1.05	1.08	1.11	1.15
40	Refrig. Capacity	(Watt)	125	171	227	292	364	440	518	596	673
	Power Input	(W)	127	139	151	164	177	189	201	211	221
	efficiency	(Watt/W)	0.98	1.23	1.51	1.79	2.06	2.33	2.58	2.82	3.05
	Amps	(A)	0.96	0.97	0.99	1.01	1.04	1.07	1.11	1.14	1.18
50	Refrig. Capacity	(Watt)		129	188	254	324	396	469	540	608
	Power Input	(W)		144	158	173	189	205	220	235	248
	efficiency	(Watt/W)		0.9	1.19	1.47	1.72	1.94	2.13	2.3	2.45
	Amps	(A)		0.98	1	1.03	1.06	1.1	1.14	1.18	1.23
60	Refrig. Capacity	(Watt)			128	197	269	341	412	479	540
	Power Input	(W)			166	183	201	220	239	258	276
	efficiency	(Watt/W)			0.77	1.08	1.34	1.55	1.72	1.86	1.95
	Amps	(A)			1.03	1.06	1.1	1.14	1.19	1.24	1.3

60HZ R-513A

Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	200	234	284	349	430	526	635	758	894
	Power Input	(W)	138	144	151	161	172	183	194	204	212
	efficiency	(Watt/W)	1.45	1.63	1.88	2.17	2.5	2.87	3.27	3.72	4.22
	Amps	(A)	1.2	1.12	1.08	1.08	1.1	1.12	1.15	1.17	1.16
40	Refrig. Capacity	(Watt)	165	197	243	303	377	463	562	672	793
	Power Input	(W)	143	151	161	173	187	200	213	226	236
	efficiency	(Watt/W)	1.15	1.3	1.51	1.75	2.02	2.31	2.63	2.98	3.36
	Amps	(A)	1.22	1.14	1.11	1.11	1.14	1.18	1.22	1.25	1.26
50	Refrig. Capacity	(Watt)		160	200	253	317	392	477	573	678
	Power Input	(W)		156	168	183	199	215	231	246	259
	efficiency	(Watt/W)		1.03	1.19	1.38	1.59	1.82	2.07	2.33	2.62
	Amps	(A)		1.15	1.12	1.13	1.17	1.22	1.27	1.32	1.35
60	Refrig. Capacity	(Watt)			167	209	262	323	394	472	558
	Power Input	(W)			178	195	214	233	251	269	284
	efficiency	(Watt/W)			0.94	1.07	1.22	1.39	1.57	1.76	1.96
	Amps	(A)			1.17	1.18	1.22	1.28	1.35	1.41	1.45

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