Tecumseh

Technical Sp
Product Engineering

REFMITRE®

Model	BM	Nominal Voltage (V)		Refrigerant	Cooling
		60 Hz	50 Hz		Fan
TCW390Y-FZ1K	TCW390Y-FZ1K	———	220-240	R-134a or R-513A	

Basic Data

Operating Voltage Range(V) : **60 Hz:** **50 Hz:** 198 - 253
Application : Medium and High Back Pressure (L/M/HBP)
Evaporating Temperature Range : -35ºC to + 5ºC (-31ºF to +41ºF)
Motor Type : RSIR
Starting Torque Class : Low Start Torque (LST)
Expansion Device : Capillary Tube
Commercial Designation : 1/4 HP
Main Oil Type : Polyol Ester **Viscosity :** 10 cSt@40°C
Substitute Oil Type : — **Viscosity :** 0 cSt@40°C
Oil Charge : 220 ml
Displacement : 7,84 cc/rev
Net Weight : 7.8 Kg
Approval : IRAM

Expected Performance

Test Condition :	ASHRAE
Test Voltage :	220V/50Hz
Cooling Capacity (+/-5%) (BTU/h) :	760
(Kcal/h) :	192
(W) :	223
Rated Watts(+/-5%)(W) :	155
Rated Current(+/-5%)(A) :	1,09
Efficiency-EER(-9.04%/+10.5%)(BTU/Wh) :	4.90
(Kcal/Wh) :	1.24
(W/W) :	1.44

LRA (Max.) (A) :17,5
Winding Resistance at 25°C (+/-7%)(ohm):Main: 11,716 Start: 16,425

Electrical Components

Starting Relay :	—			**or**	**Ty**		
Code :	———				QL2-5.55 C3		
Connection Type :	Fast-on: —		Screw: —		Fast-on: —		Screw: —
Pick-up :	———	A			5,55	A	
Drop-out :	———	A			4,5	A	
Resistance :		ohms			—	ohms	
Potential Relay :	**ELECTRICA**			**or**	**G.E.**		
Code :	———				———		
Pick-up :	—	V			—	V	
Drop-out :	—	V			—	V	
Starting Relay - PTC :	**Sensata**			**or**	**COMPELA**		
Code :	———				———		
PTC-Resistance :	———	Ohms			———	Ohms	
Power Consuption of PTC :	———	W			———	W	
Overload Protector :	—			**or**	**Sensata**		
Code :	———				4TM757MDBYY-XX		
Connection Type :	Fast-on: —		Screw: —		Fast-on: 53		Screw: —
Disc Opening Temperature (+/-5°C) :	—	°C			115	°C	
Disc Closing Temperature (+/-9°C) :	—	°C			52	°C	
Time Check Current :	—	A			11	A	
Time Check at 25°C :	—	s			5.0 - 15	s	
Trip Current :	— A at — °C				2,38 A at 90 °C		
Combo Module :							
Capacitor :	**Start:** ———			**Run:** ———			**TPCo Process**
Connection Box :	———				———		———
Note :							

All information contained in this leaflet is subjected to change without previous notice

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Model	BM	Nominal Voltage (V)		Refrigerant	Cooling
		60 Hz	50 Hz		
TCW390Y-FZ1K	TCW390Y-FZ1K	———	220-240	R-134a or R-513A	Static

Basic Data

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Application : Medium and High Back Pressure (L/M/HBP)
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Substitute Oil Type : — **Viscosity :** 0 cSt@40°C
Oil Charge : 220 ml
Displacement : 7,84 cc/rev
Net Weight : 7.8 Kg
Approval : IRAM

Expected Performance

	ASHRAE
Test Condition :	
Test Voltage :	220V/50Hz
Cooling Capacity (+/-5%) (BTU/h) :	720
(Kcal/h) :	181
(W) :	211
Rated Watts(+/-5%)(W) :	156,5
Rated Current(+/-5%)(A) :	1,09
Efficiency-EER(-9.04%/+10.5%)(BTU/Wh) :	4.60
(Kcal/Wh) :	1.16
(W/W) :	1.35

LRA (Max.) (A) :17,5
Winding Resistance at 25°C (+/-7%)(ohm):Main: 11,716 Start: 16,425

Electrical Components

Starting Relay :	—			**or**	**Ty**		
Code :	———				QL2-5.55 C3		
Connection Type :	Fast-on: —		Screw: —		Fast-on: —		Screw: —
Pick-up :	———	A			5,55	A	
Drop-out :	———	A			4,5	A	
Resistance :		ohms			—	ohms	
Potential Relay :	**ELECTRICA**			**or**	**G.E.**		
Code :	———				———		
Pick-up :	—	V			—	V	
Drop-out :	—	V			—	V	
Starting Relay - PTC :	**Sensata**			**or**	**COMPELA**		
Code :	———				———		
PTC-Resistance :	———	Ohms			———	Ohms	
Power Consuption of PTC :	———	W			———	W	
Overload Protector :	—			**or**	**Sensata**		
Code :	———				4TM757MDBYY-XX		
Connection Type :	Fast-on: —		Screw: —		Fast-on: 53		Screw: —
Disc Opening Temperature (+/-5°C) :	—	°C			115	°C	
Disc Closing Temperature (+/-9°C) :	—	°C			52	°C	
Time Check Current :	—	A			11	A	
Time Check at 25°C :	—	s			5.0 - 15	s	
Trip Current :	— A at — °C				2,38 A at 90 °C		
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