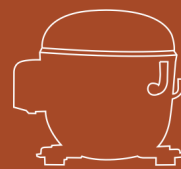




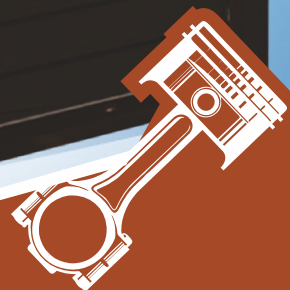
Tecumseh



RECIPROCATING
TECHNOLOGY



COMPRESSORS



COMMERCIAL
REFRIGERATION
SEGMENT



Tecumseh

The world is evolving faster than ever, so are we, we are rethinking, everything that goes into our technology moving forward and embracing the future.

We understand our role and responsibility as a global citizen to protect the environment.

We are building our future with a focus on natural refrigerants, revolutionizing the industry with variable speed technology and relentlessly innovating with our value-added system solutions.

Tecumseh Products India Pvt. Ltd. subsidiary of Tecumseh Products Company is a leading global manufacturer of hermetic compressors ranging in capacity from 1/15 -7 horsepower, as well as offering a complete line of condensing units and systems for use in residential and commercial refrigeration and air conditioning applications.

From chilling to freezing, Tecumseh compressors, condensing units and systems offer solutions, we sometimes take for granted: safe food storage, ice cream at just the right temperature, a cold refreshment and a comfortable home or work environment.

Tecumseh Products is present almost in all cold chain process.

- Commercial Refrigeration
- Residential Refrigerator & Freezer
- Air Conditioning
- Specialty Air Conditioning



ASRE/T Rating Conditions					
Application	Ambient Temperature	Eaporating Temperature	Condensing Temperature	Return Gas Temperature	Liquid Temperature
	°C	°C	°C	°C	°C
High Back Pressure (HBP)	35	7.2	54.4	35	46
High/Medium Back pressure(HMBP)	35	7.2	54.4	35	46
Commercial Back Pressure(CBP)	35	-6.7	54.4	35	46
Low Back Pressure (LBP)	32	-23.3	54.4	32	32

R-134a (230V ,1PH ,50Hz)															
Application	Model	Disp /Rev	Capacity	Power	EER	LRA	Circuit	Over Load Protector		Start Relay		Start Capacitor	Run Capacitor	Oil Qty	Net Wt
		CC	Btu/hr	Watts	Btu/Whr	Amps		Option 1	Option 2	Option 1	Option 2	Mfd, VAC	Mfd, VAC	CC	Kg
LBP	THK1330YCF	3.14	280	80	3.50	7.5	PTCSIR	4TM189NFBYY53		8EA17C1-02	820-10297	-	-	230	7.0
	THK1340YCF	4.00	365	94	3.88	8.1	PTCSIR	4TM189NFBYY-53AAP9AB		8EA17C1 -02	820-10297	-	-	210	7.0
	THK1351YJF	5.01	445	120	3.71	10.0	PSC	213PFBYY-53GBP9AB		8EA19C3-02		-	4, 440	230	8.0
	THK1365YCG	5.90	540	128	4.22	9.0	CSIR	MRA-12433-9011		9660D-3018-098		40-60, 330	-	230	9.0
	THK1365YJE	5.90	540	128	4.22	9.0	PTCSCR	4TM189NFBYY-53SMK9AB		8EA19C3-02		-	6, 440	230	8.0
	THK1374YFS	6.90	600	143	4.20	11.0	PTCSCR	MRA-12420-9011		8EA19C3-02	820-10299	-	6,440	230	9.0
	THK1374YFS	6.90	600	143	4.20	11.0	CSR	MRA-12420-9011		820-10166		88-108, 220	6, 440	230	9.0
	THK2390YJE	8.20	770	160	4.81	10.0	CSR	MRA-12420-9011		820-10167		88-108, 220	6, 440	270	9.0
	THK2411Y-GH1C	9.33	910	202	4.50	12.0	CSIR	MRA-12413-9011		9660D-3018-128	820-10183	88-108, 250	-	270	8.9
	AE2415YGH	12.48	1170	270	4.33	14.5	CSR	MRA-12465-9011	830-10300	9660C-301-135	820-10167	72-88,230	7.5,440	380	11.2
	AWX2421YGE	39.60	1975	492	4.01	40.0	CSR	Internal		RVA4H3D		150-200, 275	25, 440	950	27.0
CBP	THK9384YCG	4.00	755	148	5.10	10.3	CSIR	MRA-12433-9011	830-10195	9660D-3018-111	820-10116	40-60, 330	-	270	7.0
	THK9410YCG	5.01	940	175	5.37	12.5	CSIR	MRA-12433-9011	830-10195	9660D-3018-118	14948260	40-60, 330	-	270	8.0
	THK9412YJE	5.60	1080	170	6.35	9.0	CSR	MRA-12420-9011	830-10156	820-10167		40-60, 330	5, 440	270	8.0
	THK9414YJE	6.58	1250	192	6.50	9.0	CSR	MRA-12420-9011	830-10155	820-10167		40-60, 330	5,440	270	9.0
	THK9417YJE	8.21	1600	260	6.15	10.0	CSR	MRA-12413-9011	MSP59AM10 5/61	820-10166		40-60, 330	10, 440	270	9.0
HMBP	THK4420YCG	5.01	1725	212	8.13	12.5	CSIR	MRA-12433-9011	830-10195	9660D-3018-118	IN196	40-60, 330	-	270	8.0
	THK4428YFS	6.90	2370	310	7.65	15.0	CSIR	MRA-12414-9011	830-10155	820-10184		40-60, 330	-	270	9.0
	THK4430YGS	8.21	2850	347	8.21	12.0	CSR	MRA-12414-9011	830-10155	820-10166		40-60, 330	10, 440	270	9.0
	AE4440YGH-3C	10.33	3650	417	8.75	13.0	CSR	MRA-12414-9011	830-10299	9660C-3018-146	820-10166	40-60,330	10,440	280	10.0
	AE4440YGS	10.33	3650	454	8.04	16.0	CSIR	MRA-38121-9011	830-10387	9660C-3018-155	820-10240	72-88, 330	-	387	11.0
	AE4460YGH-3C	15.09	5400	635	8.50	18.5	CSR	MRA-12364-9011		820-10338		72-88, 330	7.5, 440	380	11.2
	TYA4475YKS	22.30	7100	822	8.64	20.0	CSR	14HM1036-110	TB33	RVA4N3C	3ARR3A6AB3	53-64,330	10,440	525.3	19.0
	TYA4489YKS	26.00	8200	980	8.37	26.0	CSR	Internal		RVA4N3C		88-108, 330	10, 440	525.3	19.0
	AWS4515YGE	39.60	12500	1200	10.40	40.0	CSR	Internal		RVA4G3D		88-108,330	25, 440	1050	26.0
R-134a (48V - DC)															
Application	Model	Disp /Rev	Capacity	Power	EER	LRA	Circuit	Controller(48V DC/24V dc)		Old THK Nomenclature		Capacity @LBP	Capacity @MBP	Oil Qty	Net Wt
		CC	Btu/hr	Watts	Btu/Whr	Amps						48V (4200 RPM)	48V (4200 RPM)	CC	Kg
LBP/MBP/HBP	CASCADE17-0306Y3	5.00	2284	204	8.50	NA	DC	O30F0137/030F0152		THK 4420Y - DC		563.52	1382.36	270	6.7
	CASCADE17-0342Y3	5.60	2570	242	8.50	NA	DC	O30F0137/030F0152		THK 4424Y - DC		621.13	1347	270	6.7

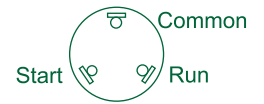
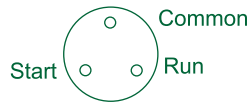
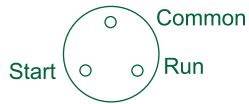
R-404A (230V ,1PH ,50Hz)																
Application	Model	Disp /Rev	Capacity	Power	EER	Current	LRA	Circuit	Over Load Protector		Start Relay		Start Capacito	Run Capacito	Oil Qty	Net Wt
		CC	Btu/hr	Watts	Btu/Whr	Amps	Amps		Option 1	Option 2	Option 1	Option 2	Mfd, VAC	Mfd, VAC	CC	Kg
LBP	AE2410Z-FZ1A	5.02	850	217	3.92	1.57	11.5	CSIR	T8011-23-ZP		RP4038-ZR (9660D-3018-130)		72-88, 330	-	285	10.0
	AE2415Z-GS1B	7.33	1250	305	4.10	2.20	15.5	CSIR	T4111-23-ZP		RP4038-ZR (9660D-3018-130)		72-88, 330	-	280	11.0
	AE2425Z-GS3C	12.01	2250	483	4.66	2.42	25.5	CSR	T89012		RVA9AM3C		61-193, 330	20, 400	386.65	11.0
	AE2430Z-FZ	14.51	2700	587	4.60	3.52	21.5	CSR	MSP36AMW		RVA6O3C		88-108,330	10,400	386.65	12.0
	TYA2438ZKS	22.33	3175	745	4.26	4.00	24.1	CSR	Internal		RVA3N3C		64-77, 330	10,440	525.3	19.0
	TYA2446ZKS	26.00	3980	925	4.30	4.48	30.0	CSR	14HM1032-110		RVA6O3C	3ARR3A4AC3	124-149,330	17,440	525.3	19.0
	CAJ2432Z-FZ	18.30	2598	591	4.40	2.67	21.0	CSR	MRA38111		RVA4AP3D 379		1,00,250	15, 400	475	20.1
	CAJ2440Z-FZ	21.00	3180	713	4.40	3.20	27.0	CSR	T0348 or MRA38111		RVA4P3D 369		88, 250	15, 400	475	21.4
	CAJ2446Z-FZ	26.20	4101	881	4.65	4.00	30.0	CSR	MST18AIN		RVA4AP3D 379		88, 330	15, 440	475	21.4
	CAJ2464Z-FZ	34.50	5387	1217	4.43	5.70	40.0	CSR	MST16AFZ		RVA6M		88, 330	20, 400	475	22.2
	AWX2450ZGE	43.26	4800	1050	4.60	6.00	55.0	CSR	15HM1436-43-2000		RVA3E3D		150-200, 230	45, 440	950	28.0
	AWX2460ZGE	55.38	5750	1250	4.60	7.50	65.0	CSR	15HM1436-43-2000		RVA4H3D		150-200, 230	45, 440	950	30.0
	AWS2470ZGE	43.26	5800	1300	4.46	7.90	55.0	CSR	15HM1436-43-2000		RVA3E3D		150-200, 230	45,440	1140	28.0
	AWS2495ZGE	54.30	8400	1700	4.90	8.95	65.0	CSR	15HM1436-43-2000		RVA3AH3D		150-170,330	45,450	1140	28.0
	AWS2512ZXC	68.00	12000	2330	5.15	11.00	71.0	CSR	15HM2357-148		RVA3AH3D		161-193,330	60, 440	1140	31.0
CBP	TYA9456ZKS	19.00	4900	970	5.05	6.25	28.5	CSIR	14HM1009-110		RPC6361	9660H-3022-178	53-64,330	--	525.3	19.0
	TYA9472ZKS	22.30	6000	1122	5.35	7.57	33.0	CSR	14HM104 6-111	TB3N	RVA6P3C	3ARR3A4AD3	64-77,330	10,450	525.3	18.0
	TYA9486ZKS	26.00	7125	1370	5.20	7.62	36.5	CSR	14HM1011-111		RVA6AN3C	3ARR3A4B4	88-108,330	15,440	525	19.0
HMBP	AE4440Z-FZ1A	6.69	3600	462	7.79	2.74	16.0	CSIR	T88494-23-ZP		RP5338(900-12564)		64-77,330	-	285	10.0
	AE4460Z-FZ1C	10.33	5650	740	7.64	4.27	19.0	CSIR	T88494-23-ZP		RP5338(900-12564)		64-77,330	-	387	12.0
	AE4470Z-FZ3C	12.01	6600	845	7.81	3.90	18.2	CSIR	MSP28APW		RVA6M3C		88-108,330	20,400	387	11.0
	AWS4516ZXN	30.56	14000	1490	9.40	6.80	45.0	CSR	15HM1707-43-1000		RVA4G3D		88-108,330	35,440	1140	26.0
	AWS4522ZXN	39.60	20200	2120	9.53	11.45	60.0	CSR	15HM2311-148		RVA2AEKD		88-108,330	35, 440	1140	26.0
	AWS4532ZXN	50.60	27000	2900	9.31	17.60	85.0	CSR	15HM2415-148		RVA3AH3D		145-175,330	45,440	1140	29.0
	AWS4538ZXN	63.00	34600	3620	9.56	18.80	126.0	CSR	15HM2610-148		RVA4AM3D		150-200, 275	45, 440	1140	30.0
R-404A (400V ,3PH ,50Hz)																
Application	Model	Disp /Rev	Capacity	Power	EER	Current	LRA	Circuit	Over Load Protector	Suggested Contactor size	Internal OLR Range	Oil Qty	Net Wt			
		CC	Btu/hr	Watts	Btu/Whr	Amps	Amps					CC	Kg			
LBP	AWS2495ZXG	54.30	8350	1620	5.15	3.10	29.0	3 Phase	Internal	10 Amps	6 - 10 Amps	1140	28.0			
	AWS2512ZTZ	68.03	11500	2270	5.07	4.20	60.0	3 Phase	Internal	10 Amps	4-6.5 Amps	1140	30.0			
	TAG2516Z	112.50	14857	2871	5.17	4.60	45.0	3 Phase	Internal	10 Amps	6 - 10 Amps	1960	45.0			
	TAG2522Z	134.80	18270	3624	5.04	6.46	56.0	3 Phase	Internal	10 Amps	6 - 10 Amps	1960	47.0			
	TAG2525Z	145.00	20454	4078	5.00	6.98	56.0	3 Phase	Internal	10 Amps	6 - 10 Amps	1960	46.0			
HMBP	AWS4516ZXG	30.56	13500	1440	9.36	2.52	20.0	3 Phase	Internal	6 Amps	4-6.5 Amps	1140	27.0			
	AWS4522ZXG	39.60	19400	2000	9.70	3.20	20.0	3 Phase	Internal	6 Amps	4-6.5 Amps	1140	26.0			
	AWS4532ZXG	50.60	25600	2640	9.70	4.12	30.0	3 Phase	Internal	10 Amps	4-6.5 Amps	1140	28.0			
	AWS4538ZXG	63.00	33500	3450	9.71	6.10	45.0	3 Phase	Internal	16 Amps	6 - 10 Amps	1140	30.0			
	AWS4544ZXG	68.00	37000	4060	9.11	6.70	42.0	3 Phase	Internal	6 Amps	6 - 10 Amps	1140	30.0			
	TAG4573Z	134.80	57787	7143	8.09	11.60	56.0	3 Phase	Internal	16 Amps	6 - 10 Amps	1960	48.0			
	TAG4581Z	145.00	62471	7942	7.87	12.70	83.0	3 Phase	Internal	16 Amps	6 - 10 Amps	1960	48.1			

R-407C (230V ,1PH ,50Hz)																
Application	Model	Disp /Rev	Capacity	Power	EER	Current	LRA	Circuit	Over Load Protector		Start Relay		Start Capacitor	Run Capacitor	Oil Qty	Net Wt
		CC	Btu/hr	Watts	Btu/Whr	Amps	Amps		Option 1	Option 2	Option 1	Option 2	Mfd, VAC	Mfd, VAC	CC	Kg
HMBP	AWR4514CGE	30.60	11900	1260	9.44	5.60	37.0	CSR	Internal		RVA4G3D		88-108, 330	25, 440	1140	27.0
	AWR4522CGH	43.26	19000	1900	10.00	10.00	48.0	CSR	Internal		RVA4G3D		88-108, 330	36/40, 440	1050	28.0
	AWR4530CGH	49.50	24500	2380	10.30	11.00	68.0	CSR	Internal		RVA3E3D		80-100, 330	45, 440	1050	30.0
	AWR4535CXC	63.00	29000	2980	9.73	14.10	85.0	CSR	Internal		RVA4G3D		145-175, 330	50, 440	1140	30.2
R-407C (400V ,3PH ,50Hz)																
Application	Model	Disp /Rev	Capacity	Power	EER	Current	LRA	Circuit	Over Load Protector	Suggested Contactor size	Internal OLR Range	Oil Qty	Net Wt			
		CC	Btu/hr	Watts	Btu/Whr	Amps	Amps					CC	Kg			
HMBP	AWR4514CGF	30.60	11700	1270	9.21	2.20	18.0	3 Phase	Internal	6 Amps	4-6.5 Amps	1140	26.6			
	AWR4522CGF	43.26	19500	1980	9.85	3.40	22.0	3 Phase	Internal	6 Amps	4-6.5 Amps	1140	28.5			
	AWR4530CGF	54.30	26400	2575	10.25	4.30	30.0	3 Phase	Internal	10 Amps	4-6.5 Amps	1140	28.5			
	AWR4535CGF	63.00	28900	2940	9.83	5.20	45.0	3 Phase	Internal	10 Amps	6-10 Amps	1140	29.9			
	AWR4540CGF	68.00	33200	3460	9.60	5.90	45.0	3 Phase	Internal	10 Amps	6-10 Amps	1140	29.7			

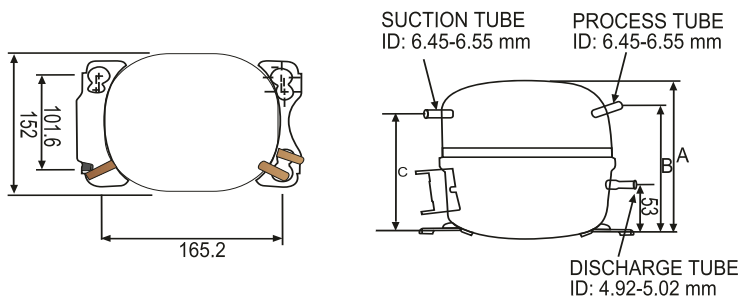
R-22 (230V ,1PH ,50Hz)																
Application	Model	Disp /Rev	Capacity	Power	EER	Current	LRA	Circuit	Over Load Protector		Start Relay		Start Capacitor	Run Capacitor	Oil Qty	Net Wt
		CC	Btu/hr	Watts	Btu/Whr	Amps	Amps		Option 1	Option 2	Option 1	Option 2	Mfd, VAC	Mfd, VAC	CC	Kg
HBP	TYA9467EKS	22.30	9800	1270	7.72	5.30	31.0	CSR	14HM1032-110	TB3P	RVA6AN3C	3ARR3A4B3	64-77,330	10,440	504	19.0
	AWS4524EGE	43.26	20700	2080	9.95	10.00	51.0	CSR	15HM 1459-43-1500		RVA4G3D		88-108, 330	35, 440	1050	28.0
	AWS4532EGH	54.30	26800	2720	9.85	12.20	79.0	CSR	15HM1436-43-2000		RVA4G3D		124-149, 330	45, 440	1140	29.0
	AWS4538EXC	63.00	31500	3200	9.84	14.20	92.0	CSR	Internal		RVA4G3D		145-175, 330	50, 440	1140	30.0
	AWQ5515EGE	32.70	13000	1400	9.29	6.30	40.0	CSR	Internal		RVA4G3D		80-100, 275	25, 370	1140	27.0
R-22 (400V ,3PH ,50Hz)																
Application	Model	Disp /Rev	Capacity	Power	EER	Current	LRA	Circuit	Over Load Protector	Suggested Contactor size	Internal OLR Range	Oil Qty	Net Wt			
		CC	Btu/hr	Watts	Btu/Whr	Amps	Amps					CC	Kg			
HMBP	AWS4515EGF	30.60	13000	1320	9.85	2.30	18.0	3 Phase	Internal	6 Amps	4-6.5 Amps	1100	27.0			
	AWS4524EGF	43.26	19500	1980	9.85	3.40	22.0	3 Phase	Internal	10 Amps	4-6.5 Amps	1100	28.0			
	AWS4532EGF	54.30	26400	2575	10.25	4.30	30.0	3 Phase	Internal	10 Amps	4-6.5 Amps	1100	29.0			
	AWS4538EGF	63.00	31900	3075	10.37	5.35	45.0	3 Phase	Internal	10 Amps	6-10 Amps	1100	30.0			
	AWS4542EXG	68.00	35660	3500	10.20	6.00	60.0	3 Phase	Internal	16 Amps	6-10 Amps	1150	31.0			



Terminal Identification

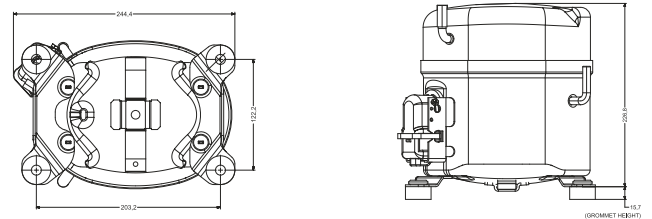


TH Series

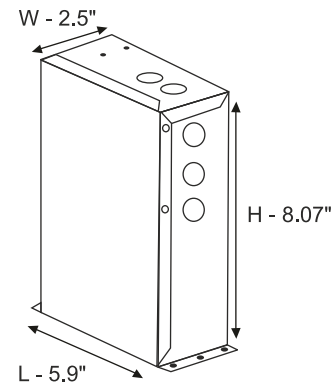


MODEL	DIMENSIONS		
	A	B	C
THK1330YCF, THK1340YCF, THK0384YCG, THK9384YCG	164.7~167.7	139.2~144.2	132.2~137.2
THK1351YJF - THK1365YGS, THK0410YCG, THK9410YCG, THK9412YJE, THK4420YCG	169.2~172.2	143.5~148.5	136.5~141.5
THK9417YJE, THK4430YGS	176.4~179.2	137.7~142.7	137.7~142.7
THK1374YFS, THK2390YJE, THK9414YGS, THK4428YFS	173.6~176.4	147.9~152.9	140.9~145.9

TY Series

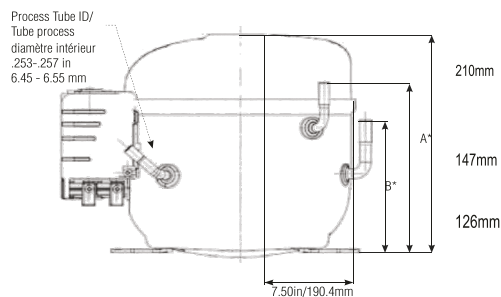
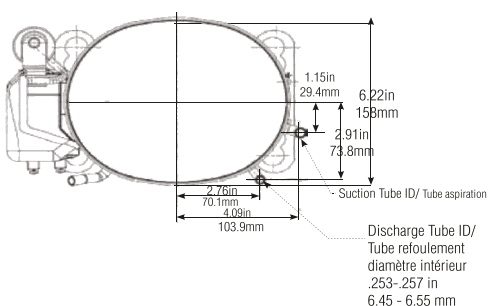


ELECTRICAL BOX

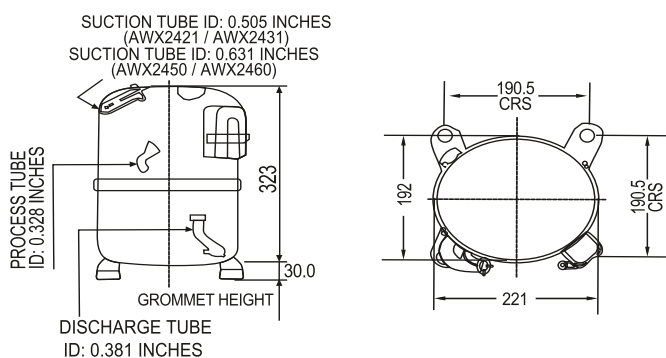


Note:
1) AWS4/2 Series Single Phase Compressors

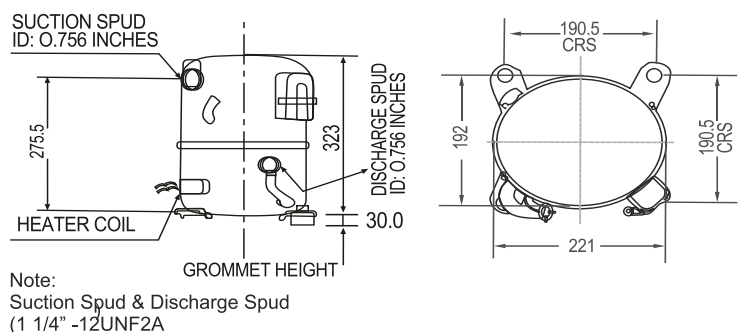
AE Series



AW Series

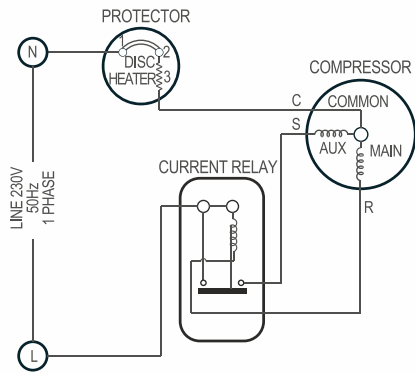


AWS SERIES WITH SPUDS FOR CONDENSING UNITS

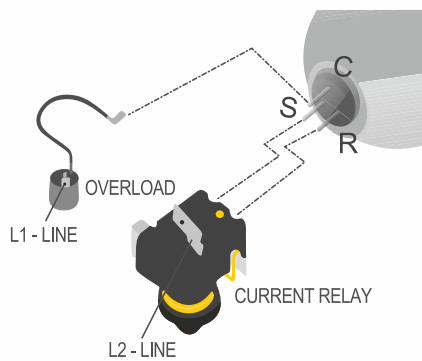


Schematics & Wiring Diagrams

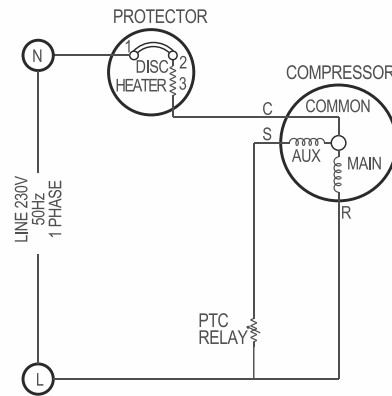
RSIR CIRCUIT



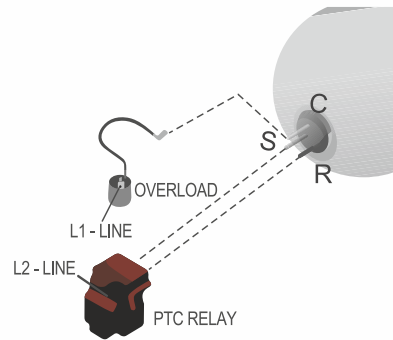
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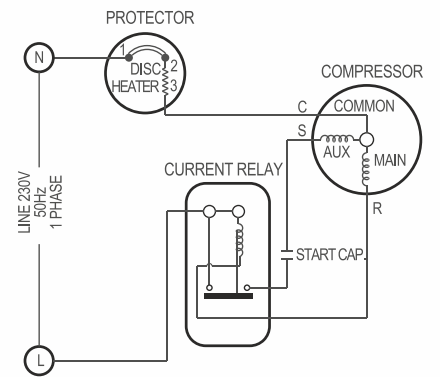
PTCSIR CIRCUIT



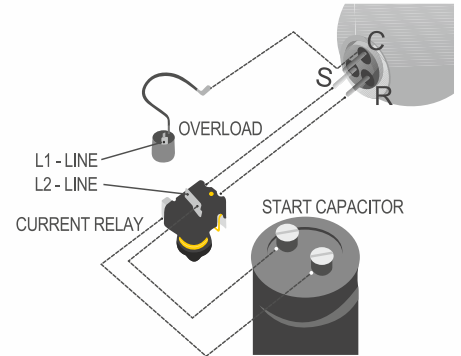
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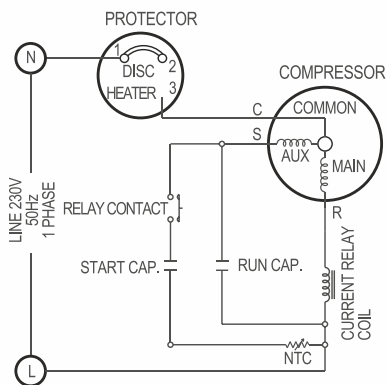
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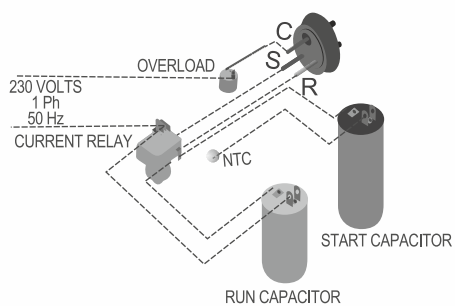
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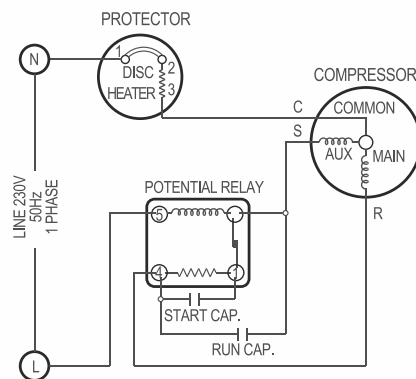
CSR CIRCUIT WITH CURRENT RELAY & NTC



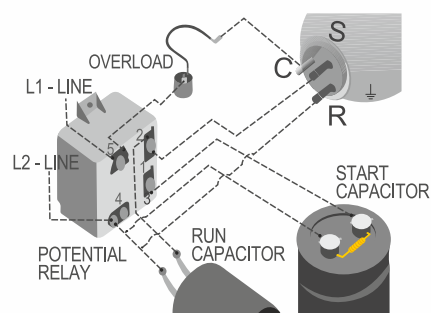
CSR CIRCUIT WITH CURRENT RELAY & NTC



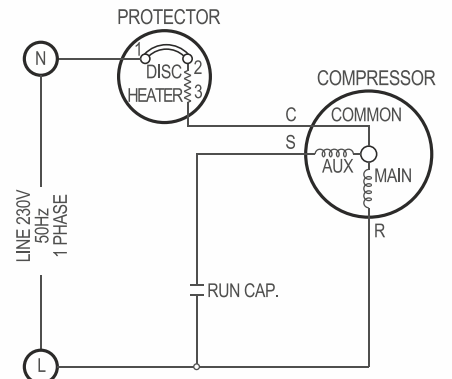
CSR CIRCUIT



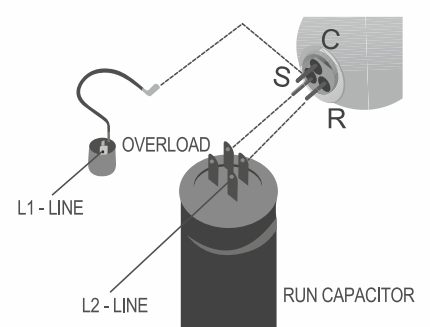
CSR



PSC CIRCUIT



PSC



TECUMSEH CONTACT DETAILS

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