



**ENGINEERING  
SPECIFICATION**

Part No.	800-098-SUF.(50 to 55)
Ref. Code	402
U.O.M.	EA
Engg. Ref.	CAC/ CHILLER

Part Description : CONTACTOR, 3 POLE

L1-1

**BASIC REQUIREMENTS**

NO. OF POLE : 3

OPERATIONAL VOLTAGE RANGE : 80-110% OF RATED CONTROL VOLTAGE

OPERATIONAL AMBIENT TEMP. RANGE : -20 TO + 55 DEG. C(REFER ZSS: 2005)

AUXILIARY CONTACT : 1 NO CONTACT TO BE SUPPLIED W/ CONTACTOR

ENCLOSURE CLASSIFICATION : AS PER IEC

DIELECTRIC STRENGTH : 1.2KV/1 SEC. MIN.

CERTIFICATION DESIRED : IEC, UL

SUF. No.	REV. No.	RATED CURRENT		CONTROL VOLTS VAC 50/60HZ
		AC3 INDUCT	ACI NON-INDUCT	
50	01	9 A	25A	24
51	01	9 A	25A	220
52	01	12 A	30A	24
53	01	12 A	30A	220
54	01	18 A	30A	24
55	01	18 A	30A	220

**QUALIFIED**

QA DATE 200905

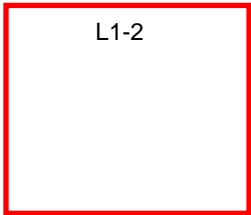
ALL DIMENSION ARE IN mm				SHEET 1 of 4		SCALE : N.T.S	
Tolerance: : Unless noted (±) : fraction 1/32" ; Decimal 0.031				Prepared by	AL-ALI. HUSSAIN		
				INITIATOR	M. IBRAHIM		
				ENG. CHECK	AHMAD		
SEE TABLE	SUF. 56 TO 68 MOVED TO SEPARATE SHEET		HUSAIN	07-09-05	VERIFIED	Moh'd Al Sayyed	
	ADDED SUFF# 60 TO 68		HUSAIN	20-03-05	APPROVAL	MATHEW	
				Issue Date	19-07-2003		
Rev #	Revision Details		Designer	Rev.Date	File Ref.	Ziiceip001\Eng-Specs\800\09850-55	



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Part Description : CONTACTOR, 3 POLE



### REFERENCE DATA

**VENDOR** : LARSEN & TOUBRO LIMITED, INDIA.

**OVERALL SIZE & SHAPE** : REFER SHEET 04 OF 04

**END TERMINAL DETAILS (COIL)** : SCREW TYPE

**COIL DROPOUT VOLTS** : 35 – 65% OF RATED CONTROL VOLTAGE

**COIL PICK UP VOLTAGE** : 80-110% OF RATED CONTROL VOLTAGE

**MECHANICAL LIFE** : 15 x 10<sup>6</sup> OPERATING CYCLE

**AUXILIARY CONTACT POSITIONS** : SIDE MOUNTED

**PACKING DETAILS** : INDIVIDUALLY PACKED

SUF. No.	REV. No.	VENDOR MODEL#	COIL(VA) RATING		LRA	
			SEALED	INRUSH	UP TO 240VAC	480VAC
50	01	MNX 9	11	75	64	46
51	01	MNX 9	11	75	64	46
52	01	MNX 12	11	75	64	63.5
53	01	MNX 12	11	75	64	63.5
54	01	MNX 18	11	75	92	81
55	01	MNX 18	11	75	92	81

**NOTE:**

- ALL CONTACTORS CAN BE USED W/ADDITIONAL SIDE MOUNTED AUXILIARY CONTACT BLOCK (1NO+1NC) P/N: 800-098-40/41
- PART MUST BE MARKED WITH VENDOR P/N & ZAC P/N

**QUALIFIED**

ALL DIMENSION ARE IN mm				SHEET 2 of 4		SCALE : N.T.S	
Tolerance: : Unless noted (±) : fraction 1/32" ; Decimal 0.031				Prepared by		AL-ALI. HUSSAIN	
				INITIATOR		M. IBRAHIM	
				ENG. CHECK		AHMAD	
SEE TABLE	SUF. 56 TO 68 MOVED TO SEPARATE SHEET		HUSAIN	07-09-05	VERIFIED	Moh'd Al Sayyed	
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**Part Description : CONTACTOR, 3 POLE**

## OPERATIONAL REQUIREMENTS

L1-3

NO. OF POLE	: 3
OPERATIONAL AMBIENT TEMP. RANGE	: -20 TO + 55 DEG. C (REFER ZSS: 2005)
ENCLOSURE CLASSIFICATION	: AS PER IEC
DIELECTRIC STRENGTH	: 1.2KV/1 SEC. MIN.
CERTIFICATION DESIRED	: IEC, UL
OVERALL SIZE & SHAPE	: REFFER SHEET 04 OF 04
END TERMINAL DETAILS (COIL)	: SCREW TYPE
COIL DROPOUT VOLTS	: 35 – 65 % OF RATED CONTROL VOLTAGE
COIL PICK UP VOLTAGE	: 80 – 110% OF RATED CONTROL VOLTAGE
MECHANICAL LIFE	: 15x 10 <sup>6</sup> OPERATING CYCLE
AUXILIARY CONTACT/ RATING	: 1NO CONTACT TO BE SUPPLIED W/ CONTACTOR
PACKING DETAILS	: INDIVIDUALLY PACKED

SUF. No.	REV. No.	VENDOR MODEL#	RATED CURRENT		CONTROL VOLTS VAC 50/60HZ	COIL(VA) RATING		LRA		OVERLOAD RELAY P/N FOR REF.
			AC3 INDUCT	ACI NON-INDUCT		SEALED	INRUSH	UP TO 240VAC	480 VAC	
50	01	MXN 9	9 A	25A	24	11	<b>75</b>	64	46	800-098-82 TO 800-098-91
51	01	MXN 9	9 A	25A	220	11	<b>75</b>	64	46	
52	01	MXN 12	12 A	30A	24	11	<b>75</b>	64	63.5	
53	01	MXN 12	12 A	30A	220	11	<b>75</b>	64	63.5	
54	01	MXN 18	18 A	30A	24	11	<b>75</b>	92	81	
55	01	MXN 18	18 A	30A	220	11	<b>75</b>	92	81	

APPROVED VENDOR : LARSEN & TOUBRO LIMITED, INDIA.

**QUALIFIED**

200905  
 QA DATE

ALL DIMENSION ARE IN mm				SHEET 3 of 4		SCALE : N.T.S	
Tolerance: : Unless noted (±) : fraction 1/32" ; Decimal 0.031				Prepared by	AL-ALI. HUSSAIN		
				INITIATOR	M. IBRAHIM		
				ENG. CHECK	AHMAD		
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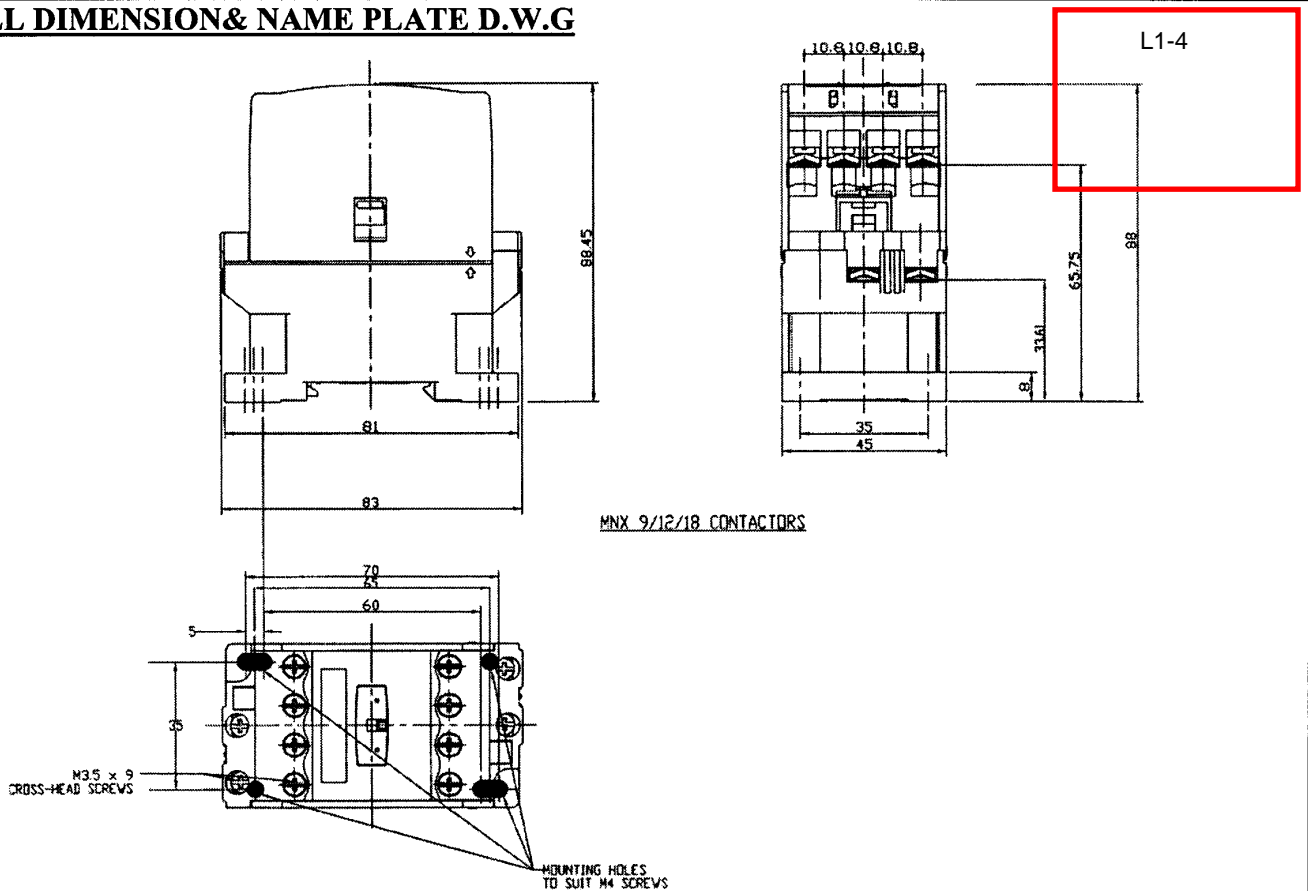


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## OVERALL DIMENSION & NAME PLATE D.W.G



**UL** US LISTED 86AD IND. CONT. EQ. E240389

**SP** EN 60947-4-1 IEC 60947-4-1

**CE** EN 60947-4-1 IEC 60947-4-1 IS 13947-4-1

**MNX 9**

AUXILIARY CONTACT:  
Ie AC-15: 4 A, 415 V ~  
Ith: 10 A

AC-1: 25A 3~ Ue Ie kW  
AC-3 415 V 9 A 4

**UL** US LISTED 86AD IND. CONT. EQ. E240389

**SP** EN 60947-4-1 IEC 60947-4-1

**CE** EN 60947-4-1 IEC 60947-4-1 IS 13947-4-1

BREAK ALL LINES  
GENERAL USE : 25 A, 600V AC  
AWG : 14-10 CU 75 °C  
SOL AND STR  
TORQUE : 10.6 LB IN

V AC	120	200	240	480	600
1 PH	0.5 HP	1 HP			
3 PH	3 HP	3 HP	5 HP	7.5 HP	10 HP

SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 5000 RMS SYMMETRICAL AMPERES, 600 VOLTS MAXIMUM  
FUSE: 15A RK5 TIME DELAY TYPE USE FUSE ONLY  
AUXILIARY CONTACTS : A 600 P 600  
GENERAL USE : 10A, 415V

PATENT APPLIED FOR  
REGD. DESIGN NO.: 187874

**UL** US LISTED 86AD IND. CONT. EQ. E240389

**SP** EN 60947-4-1 IEC 60947-4-1

**CE** EN 60947-4-1 IEC 60947-4-1 IS 13947-4-1

**MNX 12**

AUXILIARY CONTACT:  
Ie AC-15: 4 A, 415 V ~  
Ith: 10 A

AC-1: 30A 3~ Ue Ie kW  
AC-3 415 V 12 A 5.5

**UL** US LISTED 86AD IND. CONT. EQ. E240389

**SP** EN 60947-4-1 IEC 60947-4-1

**CE** EN 60947-4-1 IEC 60947-4-1 IS 13947-4-1

BREAK ALL LINES  
GENERAL USE : 25 A, 600V AC  
AWG : 14-10 CU 75 °C  
SOL AND STR  
TORQUE : 10.6 LB IN

V AC	120	200	240	480	600
1 PH	1 HP	2 HP			
3 PH	3 HP	3 HP	7.5 HP	10 HP	

SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 5000 RMS SYMMETRICAL AMPERES, 600 VOLTS MAXIMUM  
FUSE: 20A RK5 TIME DELAY TYPE USE FUSE ONLY  
AUXILIARY CONTACTS : A 600 P 600  
GENERAL USE : 10A, 415V

PATENT APPLIED FOR  
REGD. DESIGN NO.: 187874

**UL** US LISTED 86AD IND. CONT. EQ. E240389

**SP** EN 60947-4-1 IEC 60947-4-1

**CE** EN 60947-4-1 IEC 60947-4-1 IS 13947-4-1

**MNX 18**

AUXILIARY CONTACT:  
Ie AC-15: 4 A, 415 V ~  
Ith: 10 A

AC-1: 30A 3~ Ue Ie kW  
AC-3 415 V 18 A 9.3

**UL** US LISTED 86AD IND. CONT. EQ. E240389

**SP** EN 60947-4-1 IEC 60947-4-1

**CE** EN 60947-4-1 IEC 60947-4-1 IS 13947-4-1

BREAK ALL LINES  
GENERAL USE : 25 A, 600V AC  
AWG : 14-10 CU 75 °C  
SOL AND STR  
TORQUE : 10.6 LB IN

V AC	120	200	240	480	600
1 PH	1 HP	3 HP			
3 PH	5 HP	5 HP	10 HP	10 HP	

SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 5000 RMS SYMMETRICAL AMPERES, 600 VOLTS MAXIMUM  
FUSE: 20A RK5 TIME DELAY TYPE USE FUSE ONLY  
AUXILIARY CONTACTS : A 600 P 600  
GENERAL USE : 10A, 415V

PATENT APPLIED FOR  
REGD. DESIGN NO.: 187874

**QUALIFIED**  
QA 200905  
DATE

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