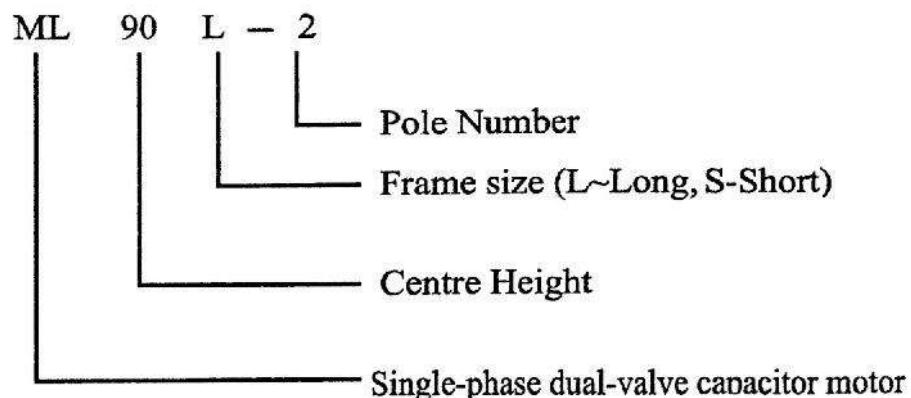


**ML SERIES SINGLE-PHASE
DUAL-VALUE CAPACITOR ASYN
MOTORS INSTRUCTION FOR
OPERATION AND MAINTENANCE**

I . Name of Model Declaration:



II . Transportation and Storage.

2.1 Transportation: During the transportation, Care must be taken to keep the motors in upright position and place it flat.without being inventedly or laterally laid. When being crsned, it should be lifted of lowered slowly, but not jerkily. At the same time it should be kept the roin and dew away from intrasion into the machine and making it damp.

2.2 Storge: The motors should be stored in a dry and well-ventilated indoor storage.Should not stored in a storage which is full of corrosive gasses.

III. Prelimiaries before operation:

3.1 Check the insulation resistance: before the motor pnt into operation the insulation resistance between its winding , and that of the windings respect to ground with a megoh meter of 500V. The rate of the resistance is greater than 1.0 megohm, otherwise the

winding should be treated with heat-baking, if it is available a voltage in the range of $1/3$ to $1/2$ of the rated value can be applied to get the motor running at no-load one hour or so, until the dampness is expelled.

3.2 Check the line voltage: Connected the line voltage in accordance with the value indicated on the nameplate of the motors. To the double voltage motor should be more care, about the motor voltage and power voltage just the same on the connection plate.

3.3 Inspection of the switch: The specification and capacity of the control switch used should satisfy the requirements indicated on the name plate of the motor. (such as current capacity size of fuse, etc.)

3.4. Inspect the environment: The space surrounding, the installation site of the motor should be free from any other corrosive gases. At the same time prevent water drips iron chips and cotton fibres are allowed to gain access into the motor, Ample free space should be provided around a motor to facilitate ventilation and heat dissipation.

3.5 Check grounded connection: The frame of the motor should be grounded to insure safety.

3.6. Rotating condition of the motor: Before the motor is installed, turn the shaft extension slowly with hand to make sure the rotor does not rub or knock against the other parts, but gives an easy and swift rotation. After the motor has been installed, check the driving belt or the coupler is mounted with good flexibility.

3.7 Wiring: check the wiring connections before the motor it started: The motor can be started only when the wiring connections are made in accordance with the wiring diagram to change connecting to change connection method of the connection strip that may change the direction.

IV. Maintenance of the motors:

4.1 Daily cleaning: The motor in use should always be kept clean. No water drops, cotton should be allowed to get into the interior of the motors.

4.2 Check on load current: While the motor is in operation, constant care should be taken to keep the load current below the rated value.

4.3 Running sound: During operation of the motor there must be needs no rubbing sound shriek and other random noise, should stop the motor in no time and begin to start it again only after correction has been done.

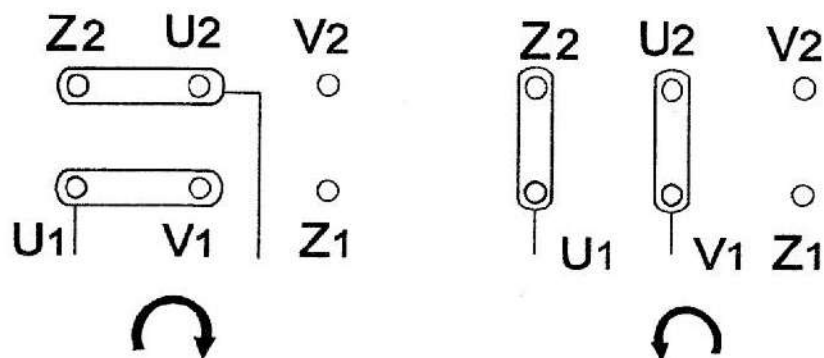
4.4 In the front end of the motor have installed the centrifugal switch. If the centrifugal switch sends voice "Ka, Zhe" that cut out starting capacitor the motor is through running normally. If listen to no voice "Ka, Zha" and have vibration and squealing that must cut out current at once to check the centrifugal switch and capacitor carefully

4.5 It is capacitor running method method, not allow running on free load for long time to avoid rising temperature and damage the winding of the motors.

V. Overall:

In order to insure reliable operation the motor, which should be carried out at regular intervals, usual once a year.

VI. Connection Diagram:

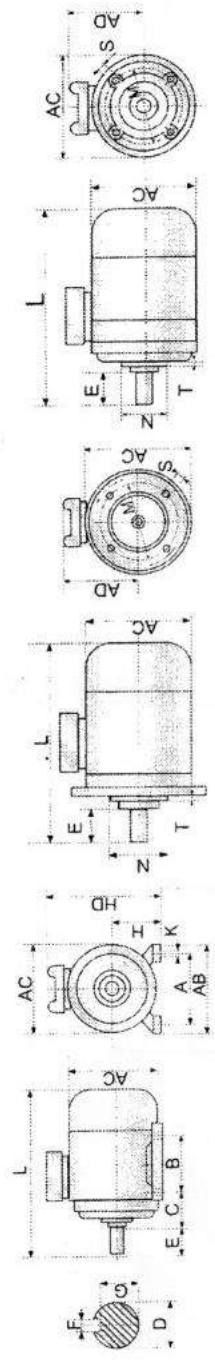


Note: The point direction is indicated to see rotating direction from the shaft extension end.

VII. Overall and Mounting Dimension:

Type B3: Horizontal, Frame with foot, end shield without flange.

Type B5: Horizontal, Frame without foot, end shield with flange



B14

B5

B3



ML SERIES INSTALLATION SIZE AND OVERALL DIMENSION

Frame No	Installation Size										Installation Size For B14					Installation Size For B5					Overall Dimension				
	A	B	C	D	E	F	G	H	K	M	N	P	S	T		M	N	P	S	T	AB	AC	AD	ND	D
71	112	90	45	14	30	5	11	71	7	130	110	160	10	3.5		85	70	105	M6	2.5	135	140	107	178	246
80	125	100	50	19	40	6	15.5	80	10	165	130	200	12	3.5		100	80	120	M6	3	155	160	141	221	299
90S	140	100	56	24	50	8	20	90	10	165	130	200	12	3.5		115	95	140	M8	3	175	175	160	250	328
90L	140	125	56	24	50	8	20	90	10	165	130	200	12	3.5		115	95	140	M8	3	175	175	160	250	258
100L	160	140	63	28	60	8	24	100	12	215	180	250	15	4		130	110	160	M8	3.5	200	195	160	260	412
112M	190	140	70	28	60	8	24	112	12	215	180	250	15	4		130	110	160	M8	3.5	226	220	166	278	421

CERTIFICATE

Type _____ Output _____ Kw _____ Hp

NO _____

Consult _____ Standard

Inspector _____

Date _____