

## MOTORS General

PREVIOUS REVISION 03-14-94		ORIGINATED 03-94	PREVIOUS NUMBER ER 900-C, ER 950, ER 13-510, & ER 13-560
ST REV	vision: Combined ER 13-	560 into this Standard, added Refe	erence, and updated specifications.
REFEI	RENCE: NEMA (Nationa	I Electrical Manufacturers Associat	tion) MG1, latest revision.
SPEC	FICATION:		
1. GI	ENERAL:		
1.1	The Company will give latitude permissible in	careful attention to all proposed po particular cases consistent with re	ower installations and give all possible indering good service.
1.2	2 Starting systems shall starting (locked rotor) between steps to not le circuit will not be opene the starting current of motor may be installed	be used which limit the initial and current values listed in NEMA MG1 ess then one-half second. Starting s ed when changing from one step to a any such motor does not exceed a d without a starting compensator.	all successive steps of current to the 1 and, they shall limit the time interval systems shall be designed so that the another of the starting position. When the values given in these tables, the
1.3	It is strongly recomment voltage, and/or unbaland of voltage on any one	nded that motors be equipped with t nced current relays to give complete or more phases.	time delay under voltage, unbalanced e protection against overload or failure
1.4	It is strongly recommer be installed on all poly equipment to protect t	nded that phase reversal relays and phase installations for cranes, pas he installation in case of phase rev	circuit breakers or equivalent devices senger or freight elevators, or similar versal.
1.5	5 When motors are use sufficient fly wheel eff above or below the no	ed to drive a pulsating load, the m ect or be so designed as to limit th ormal running current.	notor or driven equipment shall have he variation in current to 33 per cent
	NGLE PHASE CONSIDE	RATIONS	
2. SI			
<b>2. SI</b> 2. <sup>7</sup>	Power installations of unless three phase is	one or more motors aggregating savailable at the location where the	5 H.P. or less shall be single phase, motor is to be used.

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## 3. THREE PHASE CONSIDERATIONS:

3.1 The Company will supply three phase 208, 240,480, 2300 or 4200 nominal voltage regulation, for motor service. In some exceptional cases where a four wire, 120/208 Y volt secondary network has been installed, the three phase service will be approximately 208 volts. However, in all cases the Customer or Contractor shall consult the Company as to the proper supply voltage.

## 4. LARGE MOTORS:

- 4.1 Motors 50 H.P. and above **must be approved** for use on our distribution circuits by the Electric Distribution Planning Department to ensure no detriment to our circuits. If infrastructure upgrades to NIPSCO's electric system are required to accommodate new or upgraded loads, the customer may be required to pay the total cost of the required system improvements.
- 4.2 Motors having a rated capacity of 50 H.P. or over should be of the synchronous type.