TABLE 1. CLASSIFICATION OF MOTORS

CURRENT	TYPE	SPEED CHARACTERISTICS	FULL VOLTAGE		HP RANGE	TYPE OF APPLICATION SEE FOOTNOTE*
			STARTING TORQUE	STARTING CURRENT		
		Constant Speed Drives				
DIRECT	1. Shunt	Constant	Medium	Medium	All	(*a*) Fans and (*c*) Centrifugal Pumps
	2. Compound	Constant or Variable	High	Medium	All	(*b*) (*c*) (*e*) Reciprocating Pumps and frequent or hand starting
	3. Series	Variable	High	Medium	Small	(*d*) Fans direct connected
POLYPHASE	4. Squirrel Cage General Purpose	Constant	Normal	High 6-8 Times	All	(*a*) Fans and (*c*) Centrifugal Pumps
	5. Squirrel Cage Medium Torque	Constant	Normal	Medium 5-6 Times	Medium Small	(*a*) Fans and Centrifugal Pumps
	6. Squirrel Cage High Torque	Constant	High	Medium 5-6 Times	Medium Small	(*b*) Reciprocating Pumps (*e*) and Compressors started loaded
	7. Automatic Start High Torque	Constant	High	Low 3 Times	Medium	(*b*) Reciprocating Pumps (*e*) and Compressors started loaded
	8. Slip Ring Wound Rotor	Constant	High	Low 1-3 Times with secondary control	All	(*a*) and Hoists (*b*) Reciprocating Pumps (*c*) and Frequent (*e*) or Hand Start
	9. Synchronous High Speed	Constant	Medium	Medium 5-7 Times	Medium Large	(*a*) Fans and Centrifugal Pumps
	10. Synchronous Low Speed	Constant	Low	Low 3-4 Times	Medium Large	(*a*) Reciprocating Compressors Starting Unloaded
SINGLE PHASE	11. Capacitor	Constant	High	Normal	Medium Small	(*b*) Pumps and Compressors

*Applications:
a. Drives having medium or low starting torque and inertia (WR^2) such as fans and centrifugal pumps or reciprocating pumps and compressors started unloaded.
b. Drives having high starting torques, such as reciprocating pumps and compressors started loaded.
c. Similar to (*a*) except where frequent or hand starting (large WR^2) requires a higher starting and accelerating torque.
d. Fans direct connected.
e. Stoker drives.

TABLE 1. CLASSIFICATION OF MOTORS—(Continued)

CURRENT	TYPE	SPEED CHARACTERISTICS	FULL VOLTAGE		HP RANGE	TYPE OF APPLICATION SEE FOOTNOTE*
			STARTING TORQUE	STARTING CURRENT		
SINGLE PHASE	12. Capacitor Fan	Constant	High	Medium	Medium Small	(*a*) Fans—belted
	13. Capacitor Fan	Constant	Low	Medium	Medium Small	(*d*) Fans—direct
	14. Capacitor Start Induction Run	Constant	Any	Medium	Medium Small	(*a*) Fans (*b*) Pumps and Compressors
	15. Repulsion Induction	Constant	High	Medium	Medium Small	(*a*) Fans (*b*) Pumps and Compressors
	16. Repulsion Start Induction Run	Constant	High	Medium	Medium Small	(*a*) Fans (*b*) Pumps and Compressors
	17. Split Phase	Constant and Adjustable	Medium	Medium	Fractional	(*a*) Fans (*b*) Pumps and Compressors
		Adjustable Speed Drives				
DIRECT	18. Shunt Field Adjustment	Constant	Medium	Medium	All	(*a*) Fans and (*e*) Centrifugal Pumps
	19. Shunt Armature Resistor	Variable	Medium	Medium	All	(*a*) Fans and (*e*) Centrifugal Pumps
POLYPHASE	20. Squirrel Cage High Slip, Tapped Winding	Variable	Medium	Medium	Medium Small	(*a*) Fans
	21. Squirrel Cage High Slip, Transformer Adjustment	Variable	Medium	Medium	Medium Small	(*a*) Fans
	22. Squirrel Cage Separate Winding or Regrouped Poles	Constant Multi-Speed	Medium or High	Low	All	(*a*) Fans (*b*) Pumps and (*c*) Compressors