TYPICAL CHARACTERISTICS AND APPLICATIONS OF FIXED FREQUENCY SMALL AND MEDIUM AC SQUIRREL-CAGE INDUCTION MOTORS

1		1				ı	
	Locked	D. II I I -	Break	Locked			
	Rotor	Pull-Up	Down	Rotor Current			
Polyphase	Torque (Percent	Torque (Percent	Torque (Percent		Slip	Typical	Relative
Characteristics	of Rated	of Rated	of Rated	(Percent of Rated	Silp	Applications	Efficiency
Characteristics	Load	Load	Load	Load		Applications	Liliciency
	Torque)	Torque)	Torque)	Current)			
Design A	70 - 275	65 - 190	175-300	Not Defined	0.5 - 5%	Fans, blowers,	Medium
Normal locked	10 210	00 100	170 000	rtot Boilliou	0.0 070	centrifugal pumps	or high
rotor torque and						and compressors,	51 mg.
high locked						motor-generator	
rotor current.						sets, etc. where	
						starting torque	
						requirements are	
						relatively low	
Dooise D	70 075	CE 400	47E 000	600 700	0.5 50/	Fone blavers	Madium
Design B Normal locked	70 - 275	65 - 190	175-300	600 - 700	0.5 - 5%	Fans, blowers, centrifugal pumps	Medium or high
rotor torque and						and compressors,	or riigir
normal locked						motor-generator	
rotor current.						sets, etc. where	
						starting torque	
						requirements are	
						relatively low	
Design C	200 - 285	140 - 195	190 - 225	600 - 700	1 - 5%	Conveyors,	Medium
High locked						crushers, stirring	
rotor torque and						motors, agitators,	
normal locked rotor current.						reciprocating pumps and	
Totor current.						compressors,	
						etc., where	
						starting under	
						load is required	
Design D	275	N/A	275	600 - 700	5 - 8%	High peak loads	Low
High locked		, .	0		0 0,0	with or without	
rotor torque and						flywheels such as	
normal locked						punch presses,	
rotor current.						shears, elevators,	
						winches, hoists,	
						oil-well pumping	
						and wire drawing	
Deci	75 400	00.440	400.000	000 4000	0.5.00/	motors	Hiele
Design E	75 - 190	60-140	160-200	800 - 1000	0.5 - 3%	Fans, blowers, centrifugal pumps	High
Normal locked rotor torque and						and compressors,	
low slip. High						motor-generator	
locked rotor						sets, etc. where	
current.						starting torque	
						requirements are	
						relatively low	