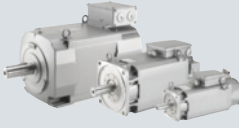
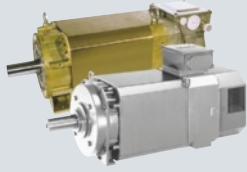


Asynchronous motors

Introduction

Type overview and rated data

Motor type	Designation	Degree of protection	Cooling method
 1PH8	Asynchronous motor Three-phase squirrel-cage motor without casing Main spindle motor Solid shaft/hollow shaft	IP55 ¹⁾ IP55/IP65 ²⁾	Forced ventilation Water cooling
 1PH7	Asynchronous motor Three-phase squirrel-cage motor without casing Main spindle motor Solid shaft	IP55 ³⁾	Forced ventilation
 1PH2	Asynchronous built-in motor Three-phase squirrel-cage motor Individual components Main spindle motor for direct drives	IP00 ⁴⁾	Water cooling

¹⁾ Fan IP55, optional: IP66.

²⁾ SH 180 and higher: IP55.

³⁾ Fan IP54.

⁴⁾ As specified by spindle manufacturer.

Asynchronous motors

Introduction

Type overview and rated data

Shaft height	Rated power P_{rated} for S1 duty kW (HP)										Rated torque M_{rated}	Selection and ordering data
	0.1	1	10	100	1000							Page
SH 80/SH 100/SH 132											10 ... 162 Nm (7.38 ... 119 lb _f -ft)	8/6 ... 8/9
SH 80/SH 100/SH 132/ SH 180/SH 225/SH 280											14 ... 2602 Nm (10.3 ... 1919 lb _f -ft)	8/10 ... 8/13
SH 100/SH 132/SH 160/ SH 180/SH 225											23.6 ... 1080 Nm (17.4 ... 797 lb _f -ft)	8/20 ... 8/33
Outer diameter mm (in) 205/250 (8.07/9.84)											48 ... 146 Nm (35.4 ... 108 lb _f -ft)	8/40 ... 8/41