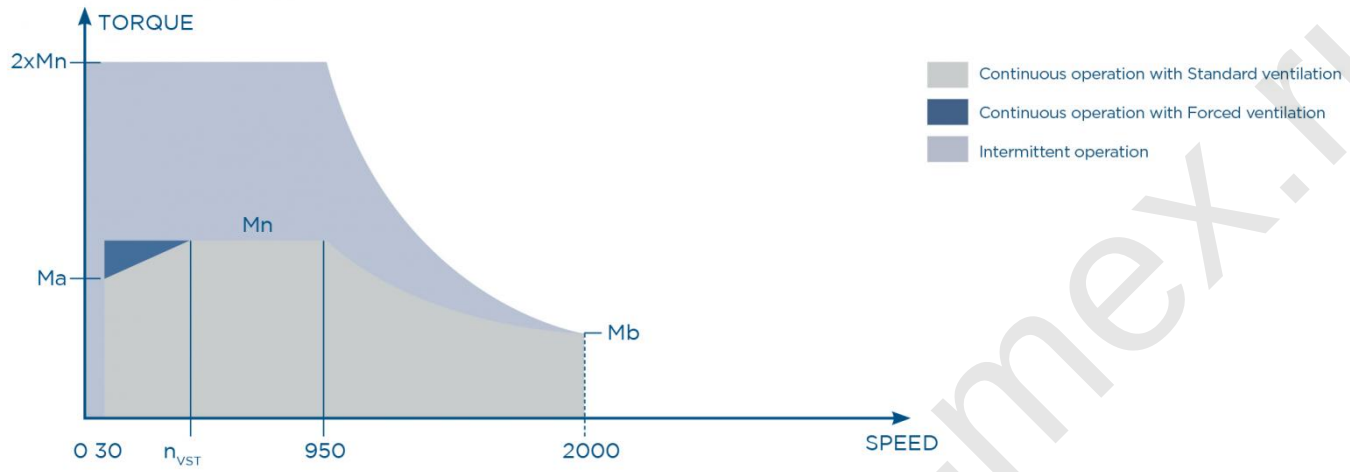
9.1 RANGE

Power supply	1ph230V	3ph400V
Power range	0.25 – 1.5 kW	0.25 – 5.5 kW
Motor sizes	71-80-90	71-80-90-100-112-132
Inverter sizes	S	S-M
Constant torque speed ranges	50÷950 50÷1450	50÷950 50÷1450 50÷1650 50÷2450
Speed range	0 ÷ 3000 rpm	
Frequency range	0 ÷ 150 Hz	
Frequency resolution	0.01 Hz	
Motor control	Sensorless vectorial, V/f scalar	
Motor starting torque	200% of the rated torque	
100% torque step response	150ms	
Current overload	150% / 60s ; 200% / 3s	
Frequency reference	Integrated potentiometer, analogue input, binary fixed frequency, pulse train, fieldbus, digital Up/Down, keyboard, IP66 potentiometer, multi source (sum)	
Direction selection	Digital inputs, keyboard, fieldbus, IP66 switch (optional)	
Analogue inputs	1 x (-10÷10V) / (0-20mA)	
Digital inputs	4 multifunction (+1 optional)	
Thermal probe inputs	1 x bimetallic (+1 x PTC/PT100 optional)	
Built-in potentiometer	1 with Start/Stop function (+1 optional IP66)	
Encoder input	1 incremental Line Driver (speed loop)	
Analogue outputs	1 x (0-10V) multifunction (optional)	
Digital Outputs	1 multifunction (optional)	
Relay outputs	1 multifunction (+1 optional)	
Serial interfaces	USB	
Integrated field BUS	CANopen 402, Modbus RTU	
Optional field buses	Profibus DPV1, Ethercat, Ethernet-IP, Profinet	
Optional expansion modules	I/O expansion; EM brake control; Dynamic braking chopper; External IP66 Potentiometer and Direction Selector	
Integrated safety	Safe Torque Off, short circuit, temperature	
On-board power supplies	1x10V, 1x24VDC	
Other Functions	• Parametric V/f curve (V/f control mode) • Parametric S ramps • PI process controller • Jog function • Electronic torque limiter • DC-bus accessible • Integrated multiple dynamic braking • Parameter Copy Keyboard • I/O Expansions (optional) • Braking chopper and resistor (optional) • Synchronised electromechanical brake control (optional) • Configuration software via PC with integrated digital oscilloscope	
Other options	Emergency stop button, quick Power and Signal connectors	
Protection rating	IP55-56-66	

9.2 PERFORMANCES

9.2.1 Version DV123

Rated operating speed G1

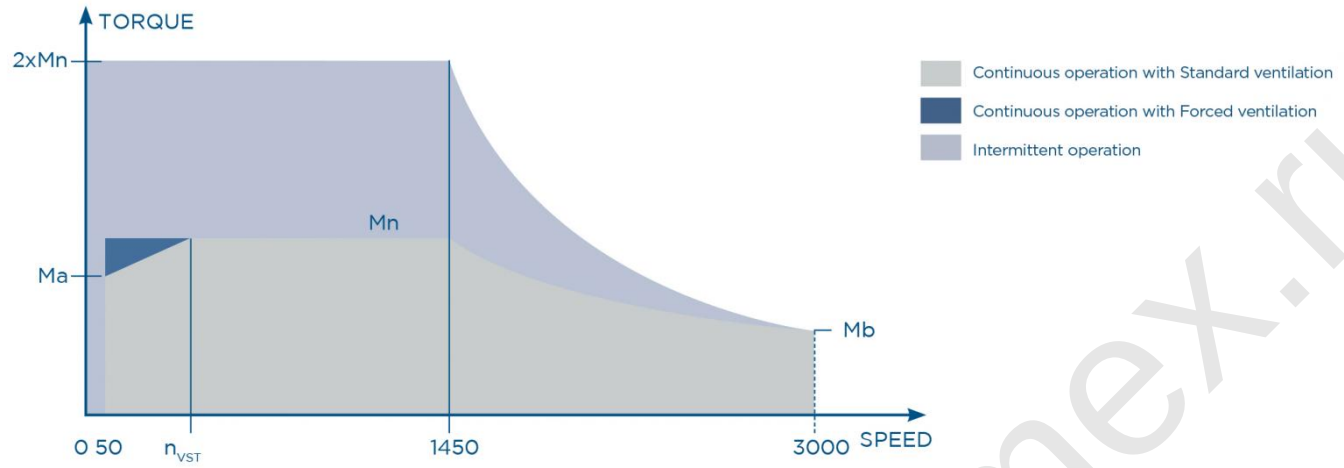


Pn = motor shaft nominal power
Mn = continuous nominal torque
Ma = continuous torque at minimum speed
Mb = continuous torque at maximum speed
nn = rated speed
nmin = minimum speed
nmax = maximum speed
nVST = forced ventilation speed threshold
IC411 = STANDARD ventilation
IC416 = FORCED ventilation
(1) With a 230V supply voltage
(2) At an ambient temperature of 25 °C and a carrier frequency of 8 kH

Drivon					Pn (kW)	n_n (rpm)	Mn (Nm) (1)	n_{max} (rpm)	Mb (Nm) (1)	n_{min} (rpm)	Ma (Nm) (1)		n_{VST} (rpm) (2)
											IC411	IC416	
DV	123	G1	0025S	TS71	0,25	950	2,5	2000	1,2	30	1,1	2,5	180
DV	123	G1	0037S	TS80	0,37	950	3,7	2000	1,8	30	1,6	3,7	180
DV	123	G1	0055S	TS80	0,55	950	5,5	2000	2,6	30	2,4	5,5	180
DV	123	G1	0075S	TH90S	0,75	950	7,5	2000	3,6	30	3,3	7,5	200
DV	123	G1	0110S	TH90L	1,1	950	11,1	2000	5,3	30	4,9	11,1	200
DV	123	G1	0150S	TH100L	1,5	950	15,1	2000	7,2	30	6,6	15,1	300

9.2 PERFORMANCES

Rated operating speed G2

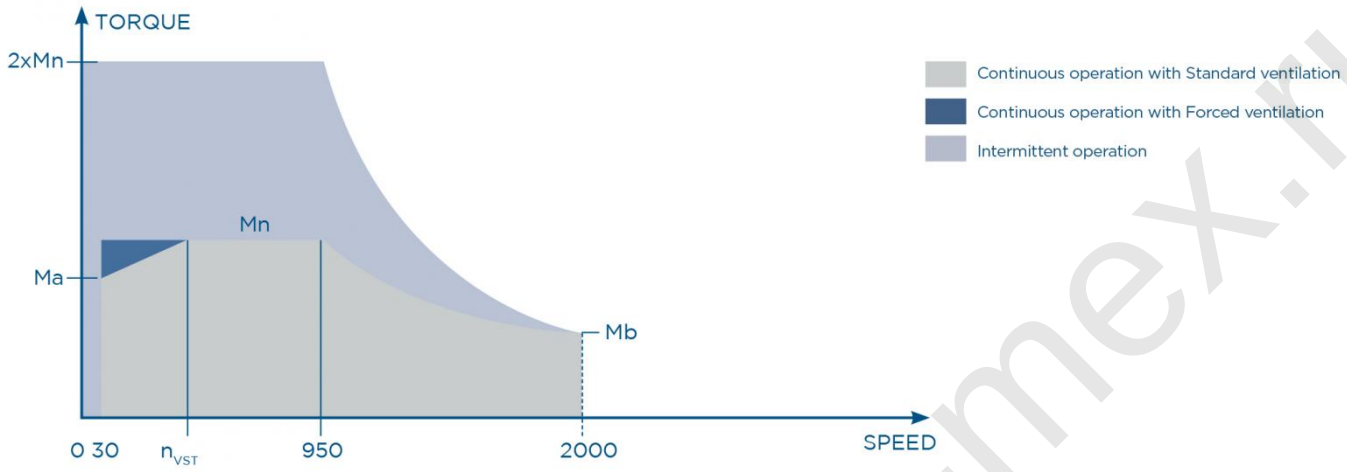


Pn = motor shaft nominal power
Mn = continuous nominal torque
Ma = continuous torque at minimum speed
Mb = continuous torque at maximum speed
nn = rated speed
nmin = minimum speed
nmax = maximum speed
nVST = forced ventilation speed threshold
IC411 = STANDARD ventilation
IC416 = FORCED ventilation
(1) With a 230V supply voltage
(2) At an ambient temperature of 25 °C and a carrier frequency of 8 kH

Drivon					Pn (kW)	n_n (rpm)	Mn (Nm) (1)	n_{max} (rpm)	Mb (Nm) (1)	n_{min} (rpm)	Ma (Nm) (1)		n_{VST} (rpm) (2)
											IC411	IC416	
DV	123	G2	0025S	TS71	0,25	1450	1,6	3000	0,7	50	0,7	1,6	250
DV	123	G2	0037S	TS71	0,37	1450	2,4	3000	1,1	50	1,1	2,4	250
DV	123	G2	0055S	TS80	0,55	1450	3,6	3000	1,6	50	1,6	3,6	250
DV	123	G2	0075S	TH80	0,75	1450	4,9	3000	2,1	50	2,2	4,9	250
DV	123	G2	0110S	TH90S	1,1	1450	7,2	3000	3,1	50	3,2	7,2	250
DV	123	G2	0150S	TH90L	1,5	1450	9,9	3000	4,3	50	4,4	9,9	400

9.2.2 Version DV340

Rated operating speed G1

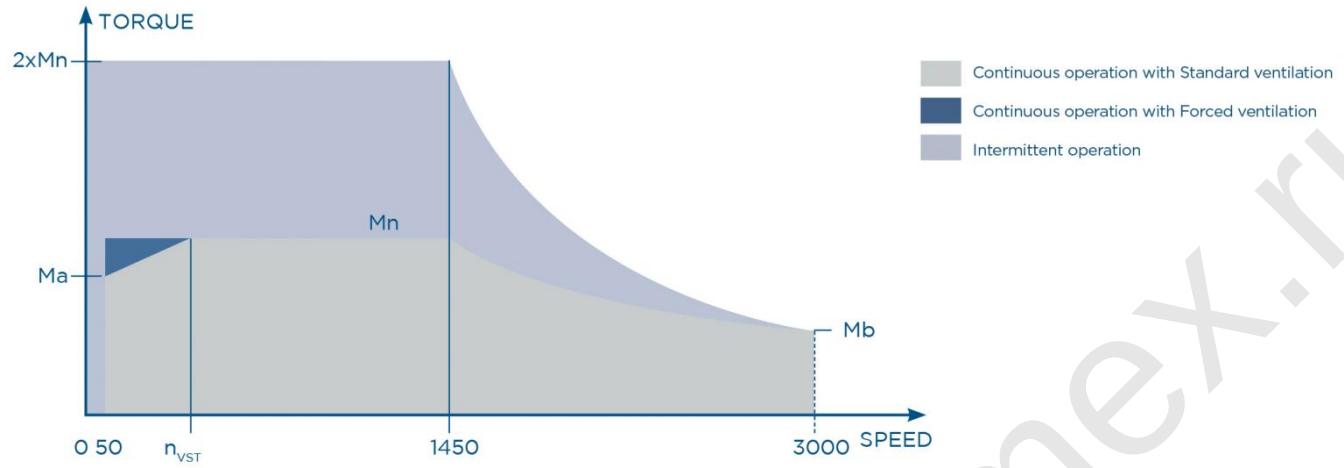


Pn = motor shaft nominal power
Mn = continuous nominal torque
Ma = continuous torque at minimum speed
Mb = continuous torque at maximum speed
nn = rated speed
nmin = minimum speed
nmax = maximum speed
nVST = forced ventilation speed threshold
IC411 = STANDARD ventilation
IC416 = FORCED ventilation
(1) With a 400V supply voltage
(2) At an ambient temperature of 25 °C and a carrier frequency of 8 kHz

Drivon					Pn (kW)	n_n (rpm)	Mn (Nm) (1)	n_{max} (rpm)	Mb (Nm) (1)	n_{min} (rpm)	Ma (Nm) (1)		n_{VST} (rpm) (2)
											IC411	IC416	
DV	340	G1	0025S	TS71	0,25	950	2,5	2000	1,2	30	1,1	2,5	180
DV	340	G1	0037S	TS80	0,37	950	3,7	2000	1,8	30	1,6	3,7	180
DV	340	G1	0055S	TS80	0,55	950	5,5	2000	2,6	30	2,4	5,5	180
DV	340	G1	0075S	TH90S	0,75	950	7,5	2000	3,6	30	3,3	7,5	200
DV	340	G1	0110S	TH90L	1,1	950	11,1	2000	5,3	30	4,9	11,1	200
DV	340	G1	0150S	TH100L	1,5	950	15,1	2000	7,2	30	6,6	15,1	300
DV	340	G1	0220M	TH112	2,2	950	22,1	2000	10,5	30	9,7	22,1	350
DV	340	G1	0300M	TH132	3	950	30,2	2000	14,3	30	13,3	30,2	350
DV	340	G1	0400M	TH132	4	950	40,2	2000	19,1	30	17,8	40,2	350
DV	340	G1	0550M	TH132	5,5	950	55,5	2000	26,3	30	24,4	55,5	400

9.2 PERFORMANCES

Rated operating speed G2

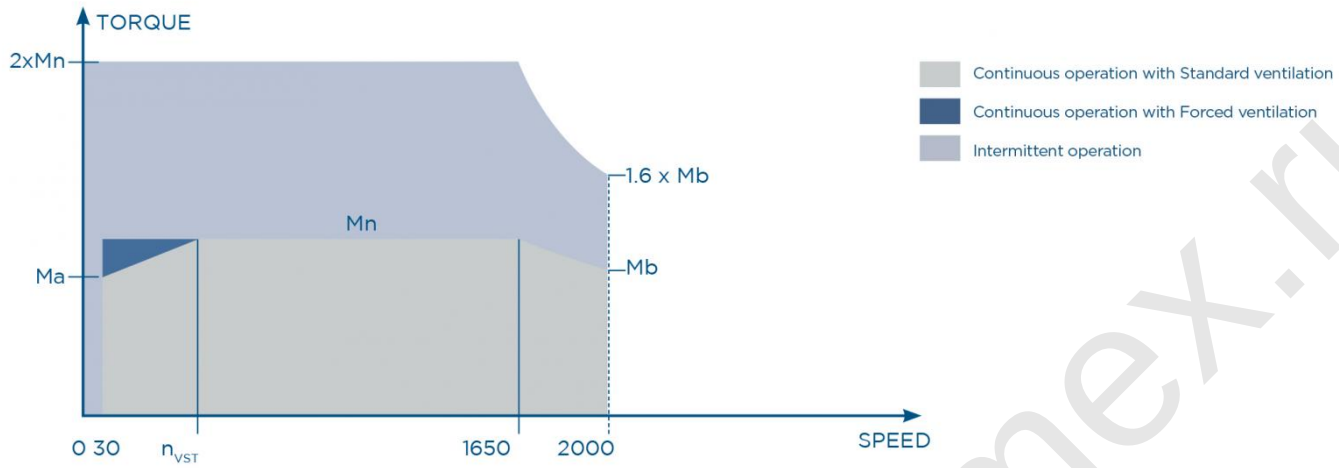


Pn = motor shaft nominal power
Mn = continuous nominal torque
Ma = continuous torque at minimum speed
Mb = continuous torque at maximum speed
nn = rated speed
nmin = minimum speed
nmax = maximum speed
nVST = forced ventilation speed threshold
IC411 = STANDARD ventilation
IC416 = FORCED ventilation
(1) With a 400V supply voltage
(2) At an ambient temperature of 25 °C and a carrier frequency of 8 kHz

Drivon					Pn (kW)	n_n (rpm)	Mn (Nm) (1)	n_{max} (rpm)	Mb (Nm) (1)	n_{min} (rpm)	Ma (Nm) (1)		n_{VST} (rpm) (2)
											IC411	IC416	
DV	340	G2	0025S	TS71	0,25	1450	1,6	3000	0,7	50	0,7	1,6	250
DV	340	G2	0037S	TS71	0,37	1450	2,4	3000	1,1	50	1,1	2,4	250
DV	340	G2	0055S	TS80	0,55	1450	3,6	3000	1,6	50	1,6	3,6	250
DV	340	G2	0075S	TH80	0,75	1450	4,9	3000	2,1	50	2,2	4,9	250
DV	340	G2	0110S	TH90S	1,1	1450	7,2	3000	3,1	50	3,2	7,2	250
DV	340	G2	0150S	TH90L	1,5	1450	9,9	3000	4,3	50	4,4	9,9	400
DV	340	G2	0220M	TH100	2,2	1450	14,5	3000	6,3	50	6,5	14,5	500
DV	340	G2	0300M	TH100	3	1450	19,8	3000	8,6	50	8,9	19,8	500
DV	340	G2	0400M	TH112	4	1450	26,4	3000	11,4	50	11,8	26,4	500
DV	340	G2	0550M	TH132	5,5	1450	36,2	3000	15,7	50	16,2	36,2	600

9.2 PERFORMANCES

Rated operating speed G3

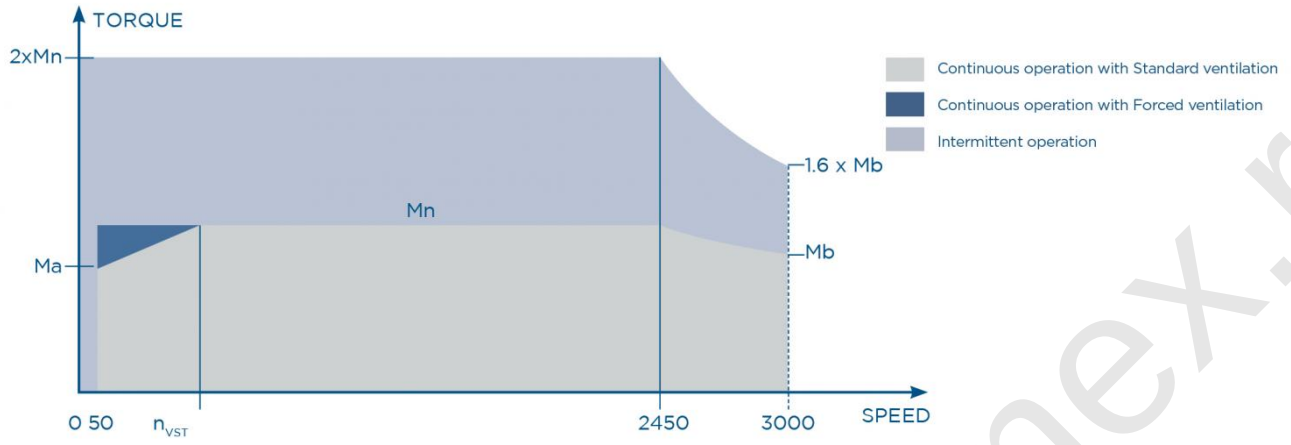


Pn = motor shaft nominal power
Mn = continuous nominal torque
Ma = continuous torque at minimum speed
Mb = continuous torque at maximum speed
nn = rated speed
nmin = minimum speed
nmax = maximum speed
nVST = forced ventilation speed threshold
IC411 = STANDARD ventilation
IC416 = FORCED ventilation
(1) With a 400V supply voltage
(2) At an ambient temperature of 25 °C and a carrier frequency of 8 kH

Drivon					Pn (kW)	n_n (rpm)	Mn (Nm) (1)	n_{max} (rpm)	Mb (Nm) (1)	n_{min} (rpm)	Ma (Nm) (1)		n_{VST} (rpm) (2)
											IC411	IC416	
DV	340	G3	0043S	TS71	0,43	1650	2,5	2000	1,2	30	1,1	2,5	180
DV	340	G3	0064S	TS80	0,64	1650	3,7	2000	1,8	30	1,6	3,7	180
DV	340	G3	0095S	TS80	0,95	1650	5,5	2000	2,6	30	2,4	5,5	180
DV	340	G3	0130S	TH90S	1,3	1650	7,5	2000	3,6	30	3,3	7,5	200
DV	340	G3	0190M	TH90L	1,9	1650	11,1	2000	5,3	30	4,9	11,1	200
DV	340	G3	0260M	TH100L	2,6	1650	15,1	2000	7,2	30	6,6	15,1	300
DV	340	G3	0380M	TH112	3,8	1650	22,1	2000	10,5	30	9,7	22,1	350
DV	340	G3	0520M	TH132	5,2	1650	30,2	2000	14,3	30	13,3	30,2	350

9.2 PERFORMANCES

Rated operating speed G4



Pn = motor shaft nominal power
Mn = continuous nominal torque
Ma = continuous torque at minimum speed
Mb = continuous torque at maximum speed
nn = rated speed
nmin = minimum speed
nmax = maximum speed
nVST = forced ventilation speed threshold
IC411 = STANDARD ventilation
IC416 = FORCED ventilation
(1) With a 400V supply voltage
(2) At an ambient temperature of 25 °C and a carrier frequency of 8 kH

Drivon					Pn (kW)	n_n (rpm)	Mn (Nm) (1)	n_{max} (rpm)	Mb (Nm) (1)	n_{min} (rpm)	Ma (Nm) (1)		n_{VST} (rpm) (2)
											IC411	IC416	
DV	340	G4	0043S	TS71	0,43	2450	1,6	3000	0,7	50	0,7	1,6	250
DV	340	G4	0064S	TS71	0,64	2450	2,4	3000	1,1	50	1,1	2,4	250
DV	340	G4	0095S	TS80	0,95	2450	3,6	3000	1,7	50	1,6	3,6	250
DV	340	G4	0130S	TH80	1,3	2450	4,9	3000	2,3	50	2,2	4,9	250
DV	340	G4	0190M	TH90S	1,9	2450	7,2	3000	3,4	50	3,2	7,2	250
DV	340	G4	0260M	TH90L	2,6	2450	9,9	3000	4,7	50	4,4	9,9	400
DV	340	G4	0380M	TH100	3,8	2450	14,5	3000	7	50	6,5	14,5	500
DV	340	G4	0520M	TH100	5,2	2450	19,8	3000	9,6	50	8,9	19,8	500