

Product offering



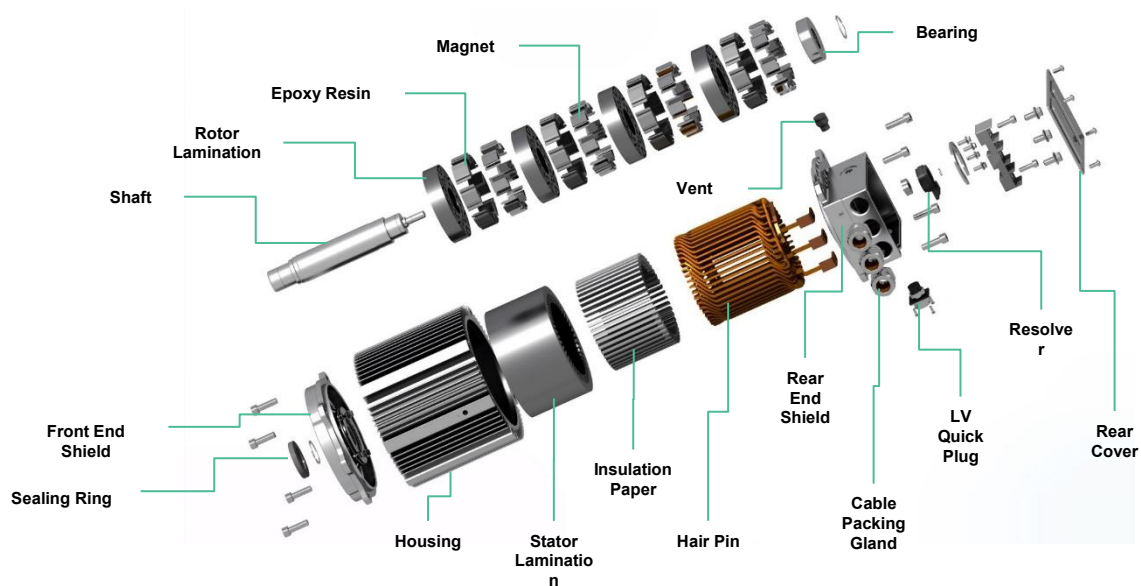
Industries served

- Construction
- Material handling
- Commercial Vehicle
- Mining
- Marine
- AC Compressor
- E-motorcycles



Proyaka specializes in High and Low Voltage e-Motor, Converter, System Solutions for electrifying mobile machines. Products are widely used in new energy vehicles, engineering vehicles, electric motorcycles, electric bicycles and other E- drive systems, also in industrial servos, robots, marine, AGV, UTV and other fields.

Proyaka Inc.
Energizing the Future of e-Mobility
www.proyaka.com
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High efficiency *Permanent Magnet Synchronous Motor Design*
15-20% higher than *Asynchronous Induction Motor*

Flat Wire Winding Stator Technology – The Future Engine for Cars

- **Higher Performance & reduced Weight**

- Slot Fill Factor increased by ~25% ,Power Density increased by 20-30% compared to Round wire

- **Efficiency improve**

- Effective Contact Area between. Increased Flat copper wire and stator core, 15-20% Better Heat Dissipation, 10-15% higher Continuous Power increased



Flat vs Round Wire Performance comparison

Winding type	Round Wire	Flat wire
Slot fill factor	Medium	Good
Heat conductivity	Bad	Good
End winding height	Medium	Medium
Electromagnetic noise	Bad	Good
Copper loss and AC loss	Bad	Medium
Torque density	Medium	Good
Automation production	Bad	Good
Production investment	Medium	High

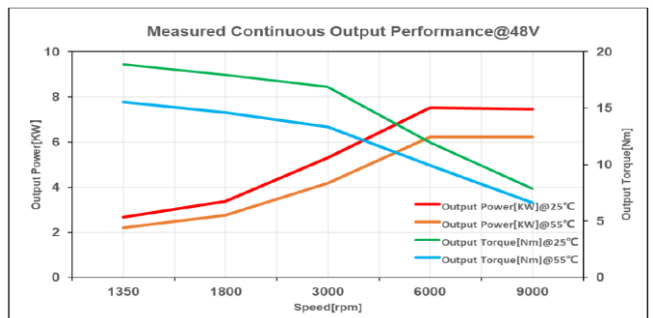
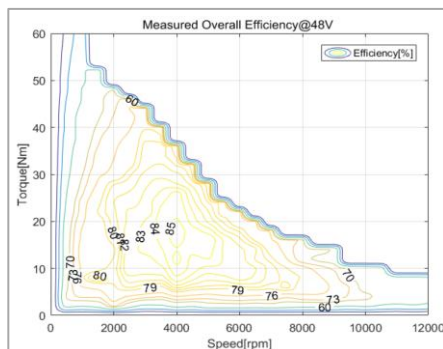
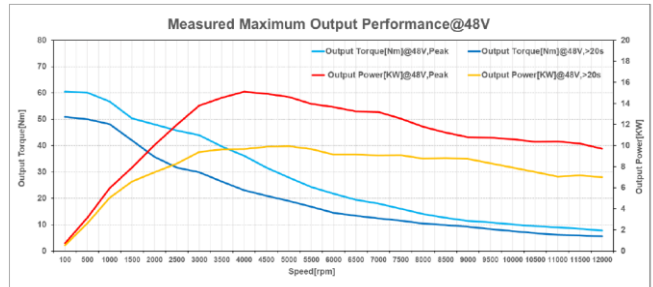
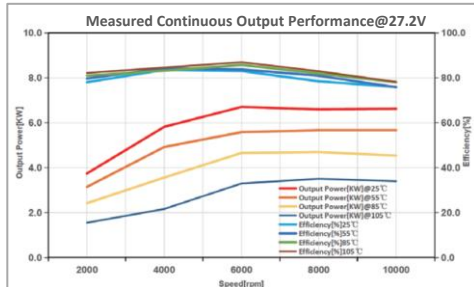
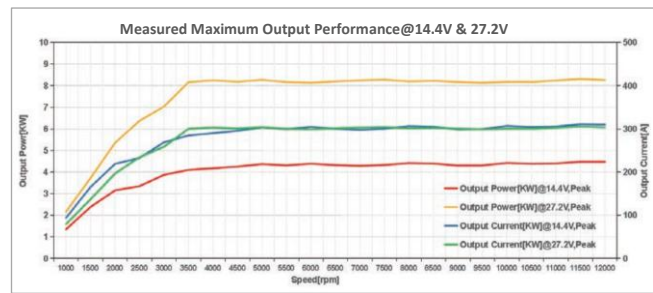
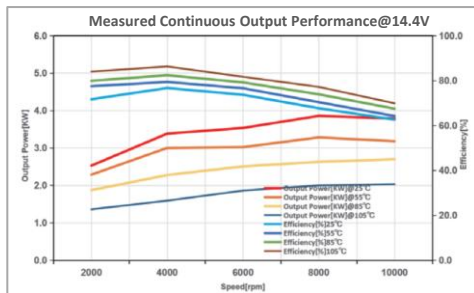


Intelligent Inverter-Based Generator Motor + Controller 2in1

Application: RV, Truck, Yacht, Lawn Mower, Wind Turbine



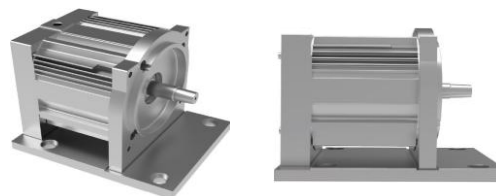
BLM12/24/48	Unit	Parameters		
Operating voltage range	V	9-16	20-30	32-60
Rated Voltage	V	14.4	27.2	51.2
Operating Temperature	°C	-40 ~ 110		
Max AC Output	Arms	300		
Peak Power >20s	Kw	6	8	15
Continuous Power @10000RPM	Kw	3.8 @ 25°C	6.6 @ 25°C	11.3 @ 25°C
		3.2 @ 55°C	5.7 @ 55°C	10.0 @ 55°C
		2.7 @ 85°C	4.5 @ 85°C	7.5 @ 85°C
		2.0 @ 105°C	3.4 @ 105°C	6.0 @ 105°C
Max Speed	Rpm	16000 Continuous 18000 Intermittent		
Max Efficiency	%	85%		
Motor Type	/	Hybrid Excitation Synchronous Motor		
Position Sensor	/	TMR		
CAN communication Protocol	/	Customer specific (e.g. CAN2.0B 500kbps or J1939 500kbps)		
Operation mode	/	Torque control /Speed Control/ Regenerative Mode		
Temperature protection	/	Yes		
Voltage Protection	/	Load dump protection		
Weight	Kg	10		
Diameter	mm	164 L x150 D		
Cooling	/	Integrated Duo Fan cooling		
Transmission Interface	/	Customer specific		
Case Construction	/	Cast Aluminum Alloy		
Connector	/	Molex 0.64 USCAR connector sealed		
Isolation Level	/	H		
IP Level	/	Motor: IP25 Inverter: IP69K		



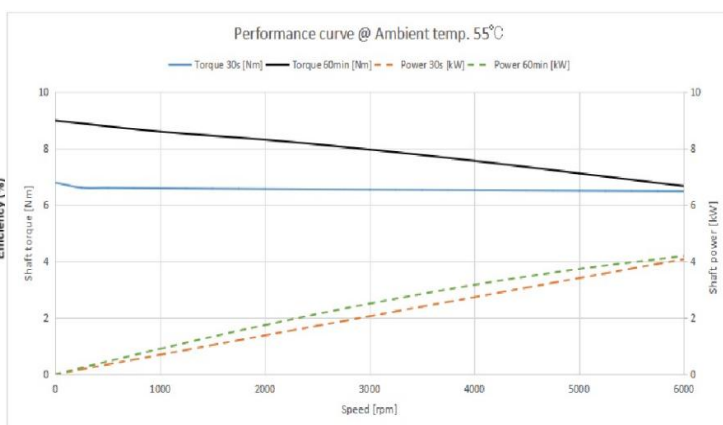
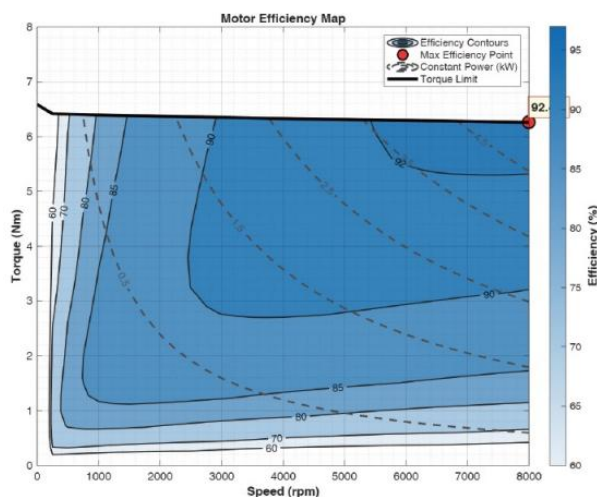
PROYAKA GENERATOR

PMOD12035S - 48V

Application: RV Pump system

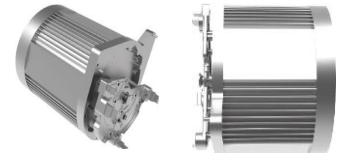


PMOD12035S	Unit	Parameters
Rated Voltage	Vdc	48
Peak Torque(30s)	Nm	6.5
Peak Power(30s)	kW	5.5 kW[30s] @ 8000rpm
Conts. Torque(S2-60min)	Nm	/
Conts. Torque(S2-2min)	Nm	/
Conts. Power(S2-60min)	kW	/
Max. Efficiency	%	95%
Max. Speed	Rpm	8000
Cooling	/	Passive cooling
IP Level	/	IP67
Weight	Kg	4.7
Dimension W x L x H	mm	170x180x206
Installation interface	/	Flange positioning and installation
Transmission Interface	/	1.Spline 2.Belt 3.Customized
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	2Pin, a=2, Y
Phases	/	3
Slots	/	48
Poles	/	8
Diameter of Stator Core	mm	120
Length of Stator Core	mm	35
Torque Ripple(Peak-Peak)	%	/
Cogging Torque(Peak-Peak)	mNm	/
Others	/	/
Max Current		/



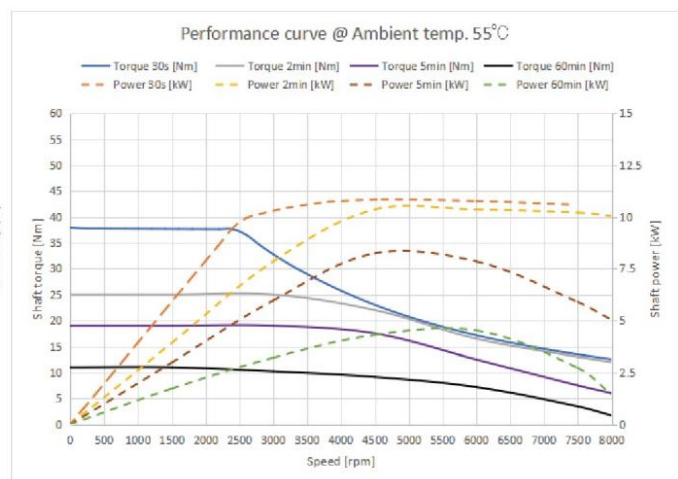
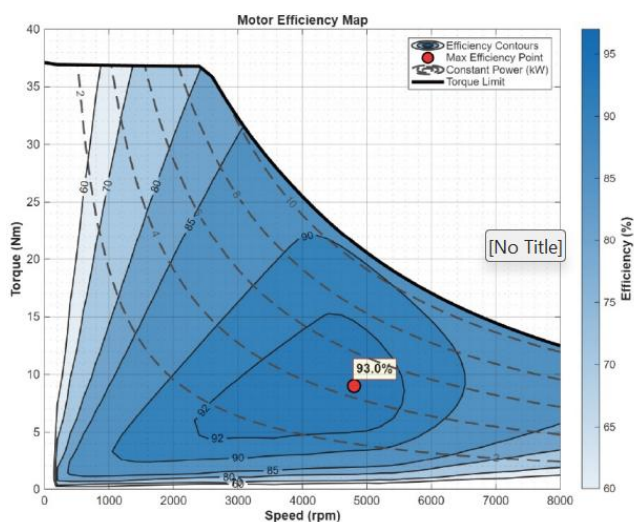
PMOD13840S – 48V

Application: AGV



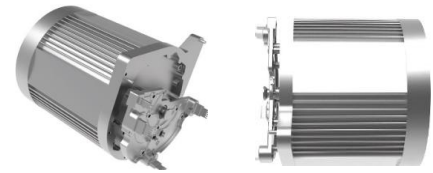
PMOD13840S	Unit	Parameters
Rated Voltage	Vdc	48
Peak Torque(30s)	Nm	37
Peak Power(30s)	kW	10.5
Conts. Torque(S2-60min)	Nm	11Nm [60min]@ 1500rpm
Conts. Torque(S2-2min)	Nm	25Nm [2min]@ 1000rpm
Conts. Power(S2-60min)	kW	1.7kW [60min]@ 1500rpm
		3.2kW [60min]@ 3000rpm
		4.3kW [60min]@ 4500rpm
Max. Efficiency	%	93%
Max. Speed	Rpm	8000
Cooling	/	Passive cooling
IP Level	/	IP67
Weight	Kg	8
Dimension W x L x H	mm	185x165x185
Installation interface	/	Flange positioning and installation
Transmission Interface	/	1.Spline 2.Belt 3.Customized
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	2Pin, a=1, Short-pitch, Y
Phases	/	3
Slots	/	48
Poles	/	8
Diameter of Stator Core	mm	138
Length of Stator Core	mm	40
Torque Ripple(Peak-Peak)	%	5.5%
Cogging Torque(Peak-Peak)	mNm	200
Others	/	EM Brake (optional)
Max Current		AC: 330Arms [30s], 120Arms [60min] DC: 250A [30s], 100A [60min]

PROYAKA E-MOTOR



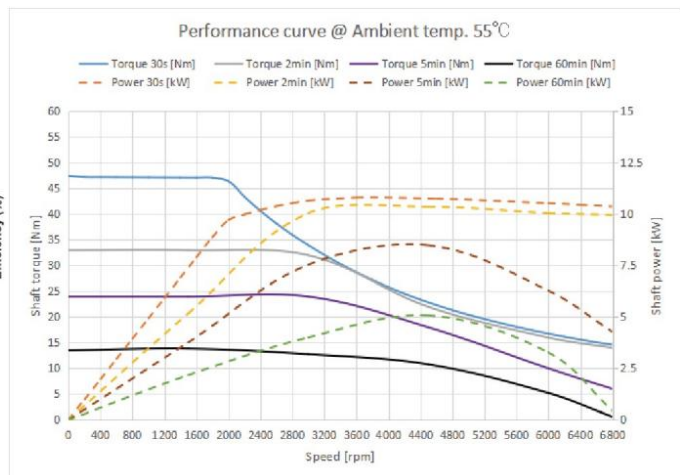
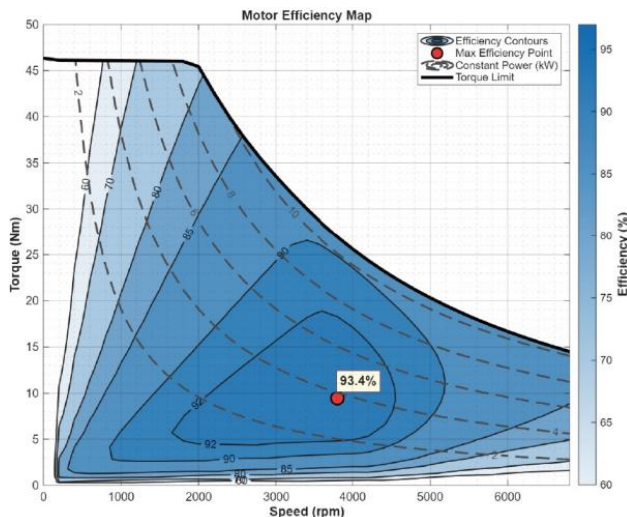
PMOD13850S - 48V

Application: AGV



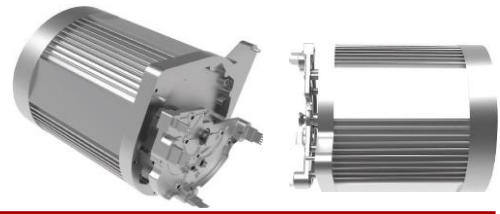
PMOD13850S	Unit	Parameters
Rated Voltage	Vdc	48
Peak Torque(30s)	Nm	46
Peak Power(30s)	kW	10.5
Conts. Torque(S2-60min)	Nm	13.5Nm [60min]@ 1500rpm
Conts. Torque(S2-2min)	Nm	33Nm [2min]@ 1000rpm
Conts. Power(S2-60min)	kW	2.1kW [60min]@ 1500rpm 4kW [60min]@ 3000rpm 5kW [60min]@ 4500rpm
Max. Efficiency	%	93.4%
Max. Speed	Rpm	7000
Cooling	/	Passive cooling
IP Level	/	IP67
Weight	Kg	8.5
Dimension W x L x H	mm	185x165x195
Installation interface	/	Flange positioning and installation
Transmission Interface	/	1.Spline 2.Belt 3.Customized
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	2Pin, a=1, Short-pitch, Y
Phases	/	3
Slots	/	48
Poles	/	8
Diameter of Stator Core	mm	138
Length of Stator Core	mm	50
Torque Ripple(Peak-Peak)	%	3%
Cogging Torque(Peak-Peak)	mNm	150
Others	/	EM Brake (optional)
Max Current		AC: 330Arms [30s], 120Arms [60min] DC: 250A [30s], 120A [60min]

PROYAKA E-MOTOR



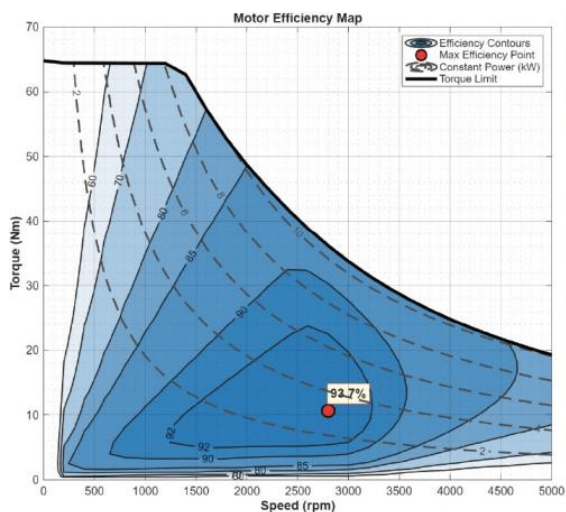
PMOD13870S - 48V

Application: AGV/Golf cart/ATV/Kart



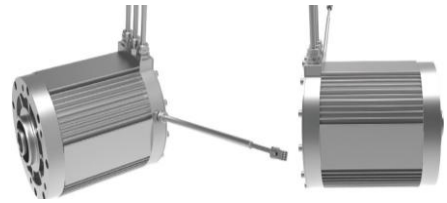
PMOD13870S	Unit	Parameters
Rated Voltage	Vdc	48
Peak Torque(30s)	Nm	66
Peak Power(30s)	kW	10.5
Conts. Torque(S2-60min)	Nm	19Nm [60min]@ 1500rpm
Conts. Torque(S2-2min)	Nm	46Nm [2min]@ 1000rpm
Conts. Power(S2-60min)	kW	3kW [60min]@ 1500rpm
		5.4kW [60min]@ 3000rpm
		3.1kW [60min]@ 4500rpm
Max. Efficiency	%	93.7%
Max. Speed	Rpm	5000
Cooling	/	Passive cooling
IP Level	/	IP67
Weight	Kg	9.5
Dimension W x L x H	mm	185x165x215
Installation interface	/	Flange positioning and installation
Transmission Interface	/	1.Spline 2.Belt 3.Customized
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	2Pin, a=1, Short-pitch, Y
Phases	/	3
Slots	/	48
Poles	/	8
Diameter of Stator Core	mm	138
Length of Stator Core	mm	70
Torque Ripple(Peak-Peak)	%	5%
Cogging Torque(Peak-Peak)	mNm	150
Others	/	EM Brake (optional)
Max Current		AC: 330Arms [30s], 120Arms [60min] DC: 250A [30s], 130A [60min]

PROYAKA E-MOTOR



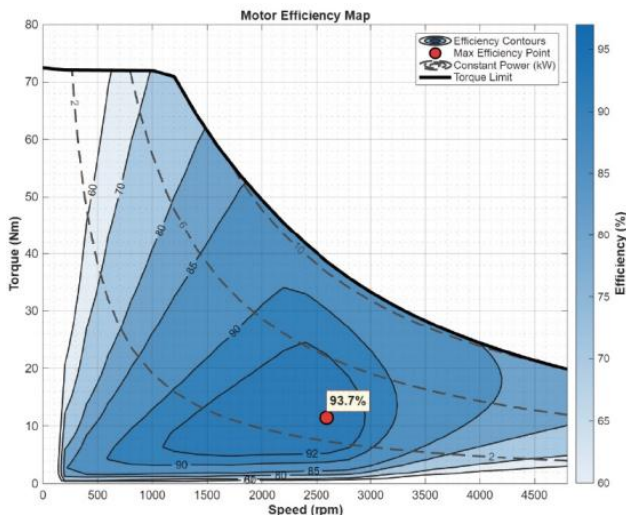
PMOD13880S - 48V

Application: AGV/Golf cart/ATV/
Kart/E-tricycle



PMOD13880S	Unit	Parameters
Rated Voltage	Vdc	48
Peak Torque(30s)	Nm	73
Peak Power(30s)	kW	10.5
Conts. Torque(S2-60min)	Nm	22Nm [60min]@ 1500rpm
Conts. Torque(S2-2min)	Nm	52Nm [2min]@ 1000rpm
Conts. Power(S2-60min)	kW	3.5kW [60min]@ 1500rpm
		5.7kW [60min]@ 3000rpm
		2.7kW [60min]@ 4500rpm
Max. Efficiency	%	93.7%
Max. Speed	Rpm	5000
Cooling	/	Passive cooling
IP Level	/	IP67
Weight	Kg	10
Dimension W x L x H	mm	185x165x225
Installation interface	/	Flange positioning and installation
Transmission Interface	/	1.Spline 2.Belt 3.Customized
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	2Pin, a=1, Short-pitch, Y
Phases	/	3
Slots	/	48
Poles	/	8
Diameter of Stator Core	mm	138
Length of Stator Core	mm	80
Torque Ripple(Peak-Peak)	%	5%
Cogging Torque(Peak-Peak)	mNm	350
Others	/	EM Brake (optional)
Max Current		AC: 330Arms [30s], 125Arms [60min] DC: 250A [30s], 125A [60min]

PROYAKA E-MOTOR



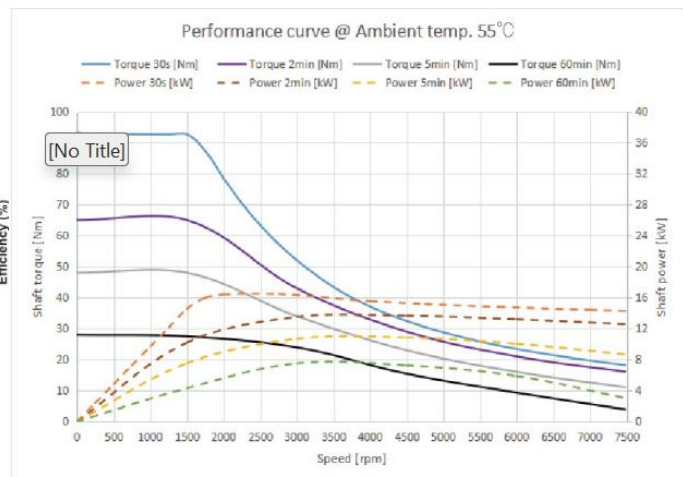
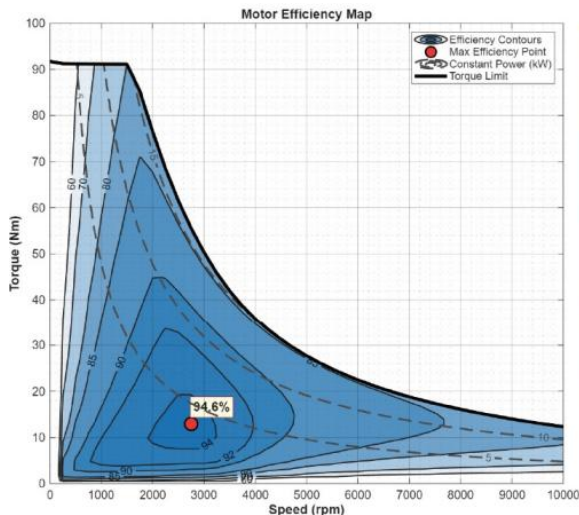
PMOD15569S - 48V

Application: Golf cart/ATV/E-tricycle
Small logistics vehicle



PMOD15569S	Unit	Parameters
Rated Voltage	Vdc	48
Peak Torque(30s)	Nm	92
Peak Power(30s)	kW	16
Conts. Torque(S2-60min)	Nm	27Nm [60min]@ 1500rpm
Conts. Torque(S2-2min)	Nm	65Nm [2min]@ 1000rpm
Conts. Power(S2-60min)	kW	4.3kW [60min]@ 1500rpm
		7.2kW [60min]@ 3000rpm
		6.9kW [60min]@ 4500rpm
Max. Efficiency	%	94.8%
Max. Speed	Rpm	12000
Cooling	/	Passive cooling
IP Level	/	IP67
Weight	Kg	12
Dimension W x L x H	mm	220x200x212
Installation interface	/	Flange positioning and installation
Transmission Interface	/	1.Spline 2.Belt 3.Customized
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	4Pin, a=2, Short-pitch, Y
Phases	/	3
Slots	/	48
Poles	/	8
Diameter of Stator Core	mm	155
Length of Stator Core	mm	69
Torque Ripple(Peak-Peak)	%	2%
Cogging Torque(Peak-Peak)	mNm	260
Others	/	EM Brake (optional)
Max Current		AC: 400Arms [30s], 150Arms [60min] DC: 420A [30s], 160A [60min]

PROYAKA E-MOTOR



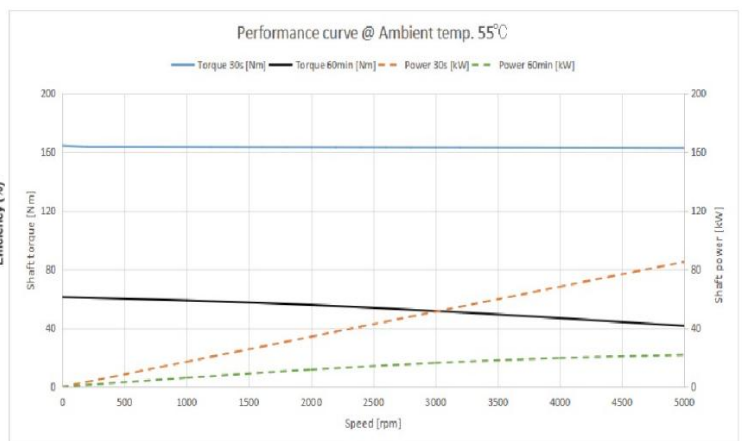
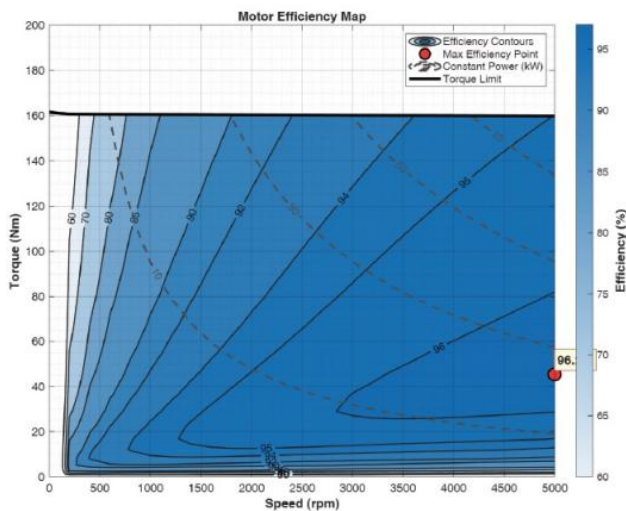
PMOD18030S - 48V

Application: Pump System
Specialty vehicle



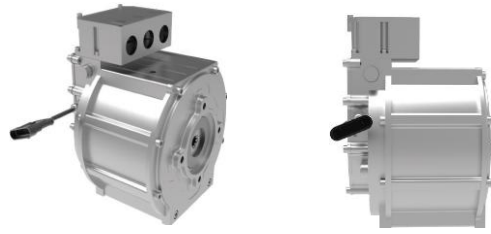
PMOD18030S	Unit	Parameters
Rated Voltage	Vdc	48
Peak Torque(30s)	Nm	54
Peak Power(30s)	kW	6.3
Conts. Torque(S2-60min)	Nm	15Nm [60min]@ 1500rpm
Conts. Torque(S2-2min)	Nm	37Nm [2min]@ 1000rpm
Conts. Power(S2-60min)	kW	2.4kW [60min]@ 1500rpm
		3.6kW [60min]@ 3000rpm
		3.2kW [60min]@ 4800rpm
Max. Efficiency	%	90.9%
Max. Speed	Rpm	4800
Cooling	/	Passive cooling
IP Level	/	IP67
Weight	Kg	15.5
Dimension W x L x H	mm	210x209x210
Installation interface	/	Flange positioning and installation
Transmission Interface	/	1.Spline 2.Belt 3.Customized
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	4Pin, a=1, Short-pitch, Y
Phases	/	3
Slots	/	48
Poles	/	8
Diameter of Stator Core	mm	180
Length of Stator Core	mm	30
Torque Ripple(Peak-Peak)	%	11%
Cogging Torque(Peak-Peak)	mNm	1300
Others	/	EM Brake (optional)
Max Current		AC: 240Arms [30s], 80Arms [60min] DC: 170A [30s], 90A [60min]

PROYAKA E-MOTOR



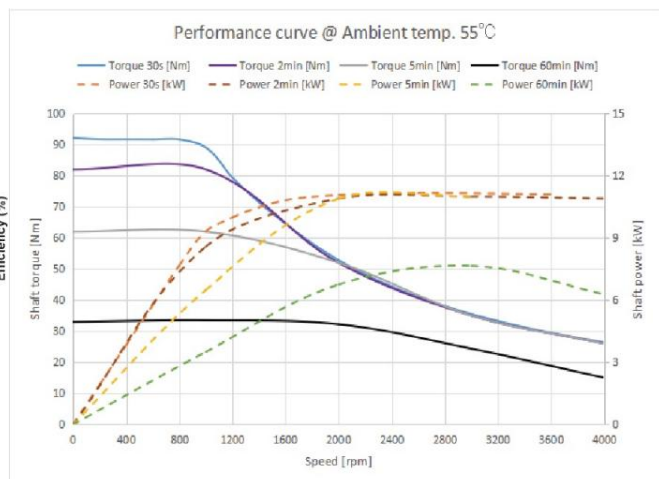
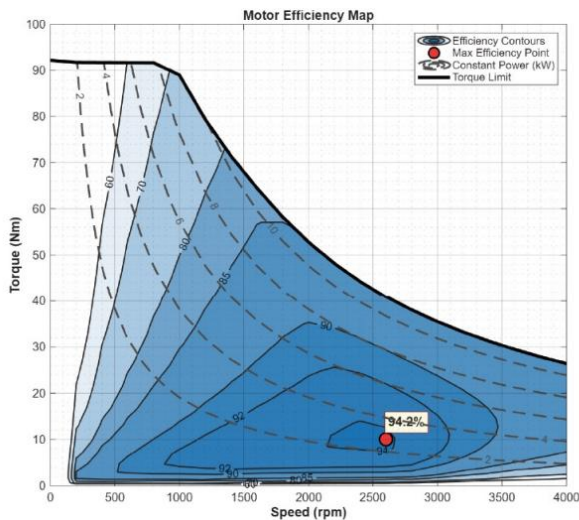
PMOD18060S - 48V

Application: Pump system
Specialty vehicle



PMOD18060S	Unit	Parameters
Rated Voltage	Vdc	48
Peak Torque(30s)	Nm	90
Peak Power(30s)	kW	11
Conts. Torque(S2-60min)	Nm	30Nm [60min]@ 1500rpm
Conts. Torque(S2-2min)	Nm	62Nm [2min]@ 1000rpm
Conts. Power(S2-60min)	kW	3.5kW [60min]@ 1500rpm
		7.7kW [60min]@ 3000rpm
		6.3kW [60min]@ 4000rpm
Max. Efficiency	%	94.2%
Max. Speed	Rpm	4000
Cooling	/	Passive cooling
IP Level	/	IP67
Weight	Kg	22
Dimension W x L x H	mm	212x184x252
Installation interface	/	Flange positioning and installation
Transmission Interface	/	1.Spline 2.Belt 3.Customized
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	4Pin, a=1, Short-pitch, Y
Phases	/	3
Slots	/	48
Poles	/	8
Diameter of Stator Core	mm	180
Length of Stator Core	mm	60
Torque Ripple(Peak-Peak)	%	13%
Cogging Torque(Peak-Peak)	mNm	2500
Others	/	EM Brake (optional)
Max Current		AC: 350Arms [30s], 16Arms [60min] DC: 270A [30s], 180A [60min]

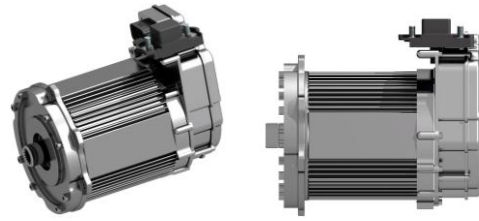
PROYAKA E-MOTOR



PMBAZ4810D - 48V

Motor + controller 2in1

Application: AGVs, Golf carts

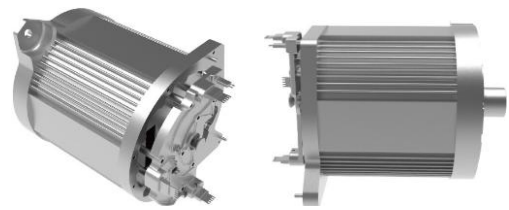


PMBAZ4810D	Unit	Parameters
Operation Voltage	Vdc	48V (36-60V)
Peak Torque(30s)	Nm	77 Nm
Peak Power(30s)	kW	11 kW
Conts. Torque (S2-60min)	Nm	22Nm [60min] @ 1500rpm
Conts. Torque (S2-2min)	Nm	50.5Nm [2min] @ 1000rpm
Conts. Power (S2-60min)	kW	3.5kW [60min] @ 1500rpm 5.7kW [60min] @ 3000rpm 4.1kW [60min] @ 4500rpm
Ambient Temperature	°C	-40~65°C
Max. Efficiency	%	94.1%
Max. Speed	rpm	6000
Cooling	/	Passive cooling
IP Level	/	IP67
Insulation level	/	H
Weight	Kg	15kg
Dimension	mm	Φ160 Dx 235 L
Installation interface	/	Flange positioning and installation
Transmission Interface	/	Customized
Motor Type	/	PMSM inner Rotor Motor
Platform	/	Infineon AURIX™ MCU
IoT device	/	BLT+APP
I/O Connector	/	23pin, DI/AI/PWM/ HB/HSD+LSD/5V-OUT/ 12V-OUT supported by MCU TC367
Communication	/	Customer Specific
Functionality	/	Torque control/Speed control/ Regen mode /Anti -Rolling Control/Hill Descent Control
Logic Voltage supply	Vdc	INT/EXT. 9-16V
Dielectric Withstand	Vdc	1000 Vdc, 1min, leakage current<20mA
Discharge	-	Discharged to 60Vdc in 2mins
Vibration	/	Max.5g, refer to GB/T 18488:2024(IEC60068-2:2019)
Safety	/	Designed to the requirements of EN ISO13849-1:2015;EN 1175:2020
EMC	/	Designed to the requirements of EN12895:2015+A1:2019
Design Life	/	8000h,Continuous operation w/o any fault

PROYAKA E-MOTOR

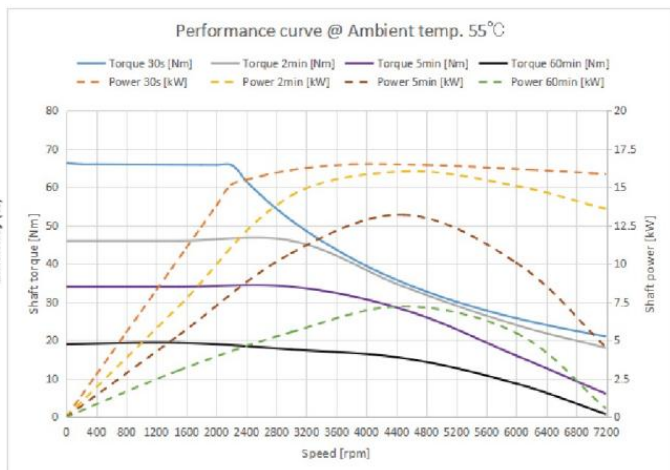
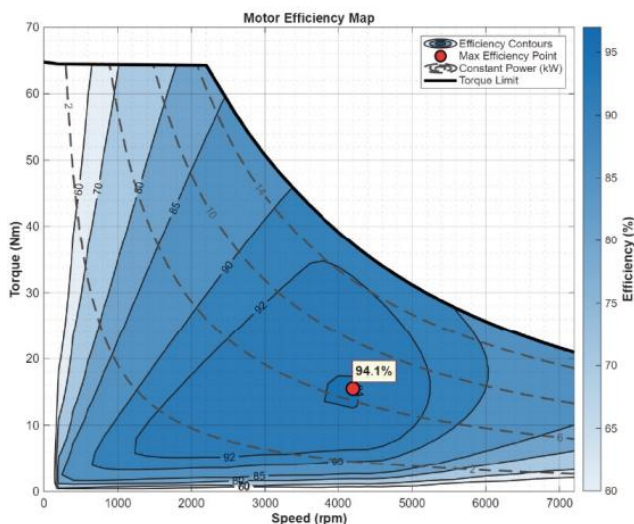
PMOD13870S - 72V

Application: AGV/Golf cart/ATV/Kart



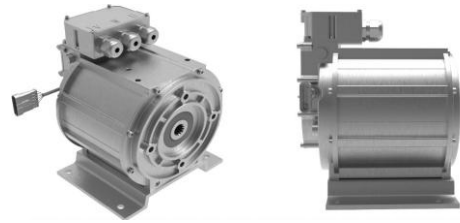
PMOD13870S	Unit	Parameters
Rated Voltage	Vdc	72
Peak Torque(30s)	Nm	66
Peak Power(30s)	kW	16
Conts. Torque(S2-60min)	Nm	19Nm [60min]@ 1500rpm
Conts. Torque(S2-2min)	Nm	46Nm [2min]@ 1000rpm
Conts. Power(S2-60min)	kW	3kW [60min]@ 1500rpm
		5.5kW [60min]@ 3000rpm
		7.2kW [60min]@ 4500rpm
Max. Efficiency	%	94.1%
Max. Speed	Rpm	7000
Cooling	/	Passive cooling
IP Level	/	IP67
Weight	Kg	9.5
Dimension W x L x H	mm	185x165x215
Installation interface	/	Flange positioning and installation
Transmission Interface	/	1.Spline 2.Belt 3.Customized
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	2Pin, a=1, Short-pitch, Y
Phases	/	3
Slots	/	48
Poles	/	8
Diameter of Stator Core	mm	138
Length of Stator Core	mm	70
Torque Ripple(Peak-Peak)	%	5%
Cogging Torque(Peak-Peak)	mNm	300
Others	/	EM Brake (optional)
Max Current		AC: 330Arms [30s], 120Arms [60min] DC: 250A [30s], 110A [60min]

PROYAKA E-MOTOR



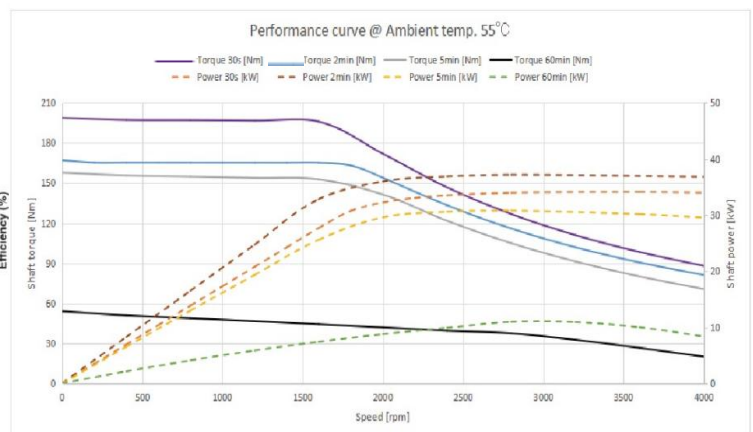
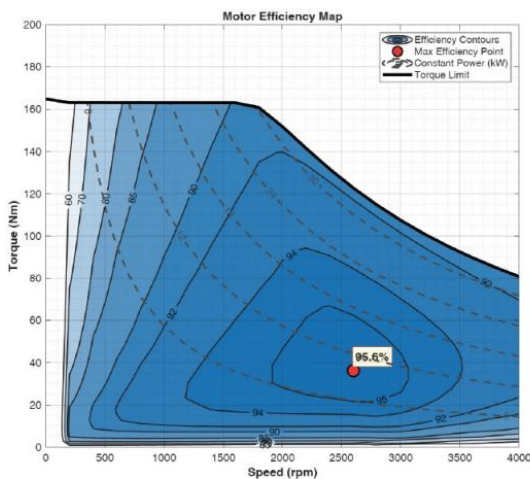
PMOD20090S - 80V

Application: Pump system
Specialty vehicle, Logistics vehicle



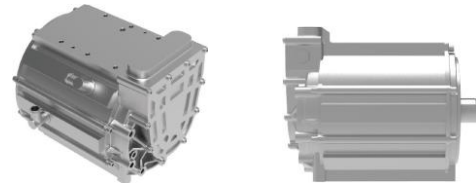
PMOD20090S	Unit	Parameters
Rated Voltage	Vdc	64-96
Peak Torque(30s)	Nm	200
Peak Power(30s)	kW	30.5
Conts. Torque(S2-60min)	Nm	63
Conts. Torque(S2-2min)	Nm	160
Conts. Power(S2-60min)	kW	16.5 (@500A)
Max. Efficiency	%	95.6%
Max. Speed	Rpm	4000
Cooling	/	Nature cooling
IP Level	/	IP67
Weight	Kg	47
Dimension W x L x H	mm	236x306.4x231
Installation interface	/	Flange positioning and installation
Transmission Interface	/	1.Spline 2.Belt 3.Customized
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	4Pin, a=2, Y
Phases	/	3
Slots	/	48
Poles	/	8
Diameter of Stator Core	mm	200
Length of Stator Core	mm	90
Torque Ripple(Peak-Peak)	%	/
Cogging Torque(Peak-Peak)	mNm	/
Others	/	/
Max Current	A	500

PROYAKA E-MOTOR



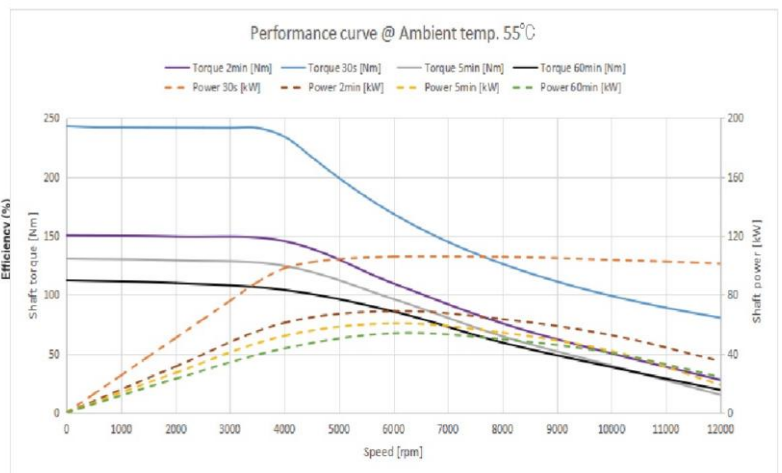
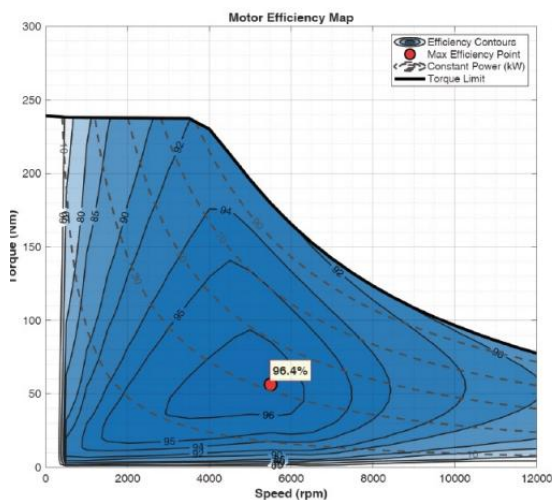
PMOD180110S - 330V

Application: Logistics vehicle



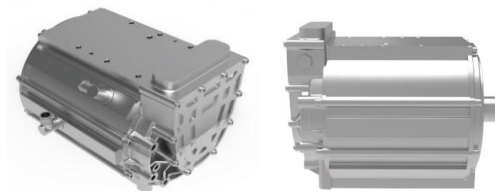
PMOD180110S	Unit	Parameters
Rated Voltage	Vdc	330
Peak Torque(30s)	Nm	220 [60s]
Peak Power(30s)	kW	75kw[60s]
Conts. Torque(S2-60min)	Nm	/
Conts. Torque(S2-2min)	Nm	/
Conts. Power(S2-60min)	kW	/
Max. Efficiency	%	95%
Max. Speed	Rpm	9000
Cooling	/	Liquid cooling 55dgC, 12L/min
IP Level	/	IP68
Weight	Kg	38 +/-1
Dimension W x L x H	mm	227x234x288
Installation interface	/	Flange positioning and installation
Transmission Interface	/	1.Spline 2.Belt 3.Customized
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	4Pin, a=1, Y
Phases	/	/
Slots	/	/
Poles	/	/
Diameter of Stator Core	mm	180
Length of Stator Core	mm	110
Torque Ripple(Peak-Peak)	%	/
Cogging Torque(Peak-Peak)	mNm	/
Others	/	/
Max Current	/	/

PROYAKA E-MOTOR



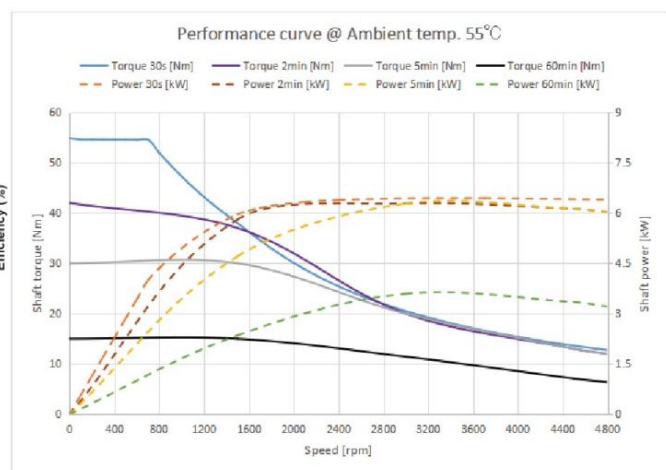
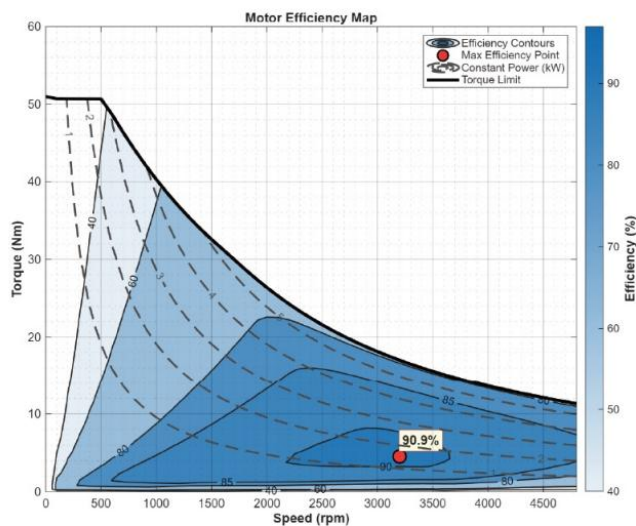
PMOD180130S - 350V

Application: AC compressor



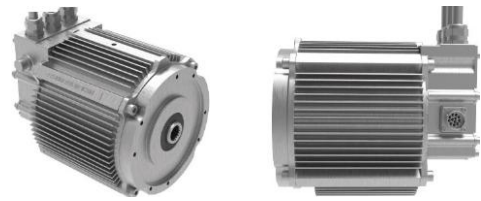
PMOD180130S	Unit	Parameters
Rated Voltage	Vdc	350
Peak Torque(30s)	Nm	161[60s]
Peak Power(30s)	kW	90[60s]
Conts. Torque(S2-60min)	Nm	/
Conts. Torque(S2-2min)	Nm	/
Conts. Power(S2-60min)	kW	/
Max. Efficiency	%	96%
Max. Speed	Rpm	13000
Cooling	/	Natural cooling
IP Level	/	IP68
Weight	Kg	34
Dimension W x L x H	mm	227x234x308
Installation interface	/	Flange positioning and installation
Transmission Interface	/	Spline
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	4Pin, a=1, S Y
Phases	/	/
Slots	/	/
Poles	/	/
Diameter of Stator Core	mm	180
Length of Stator Core	mm	130
Torque Ripple(Peak-Peak)	%	/
Cogging Torque(Peak-Peak)	mNm	/
Others	/	/
Max Current		/

PROYAKA E-MOTOR



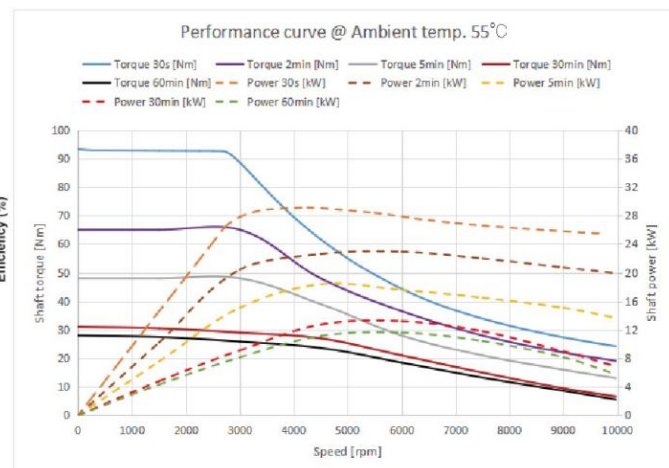
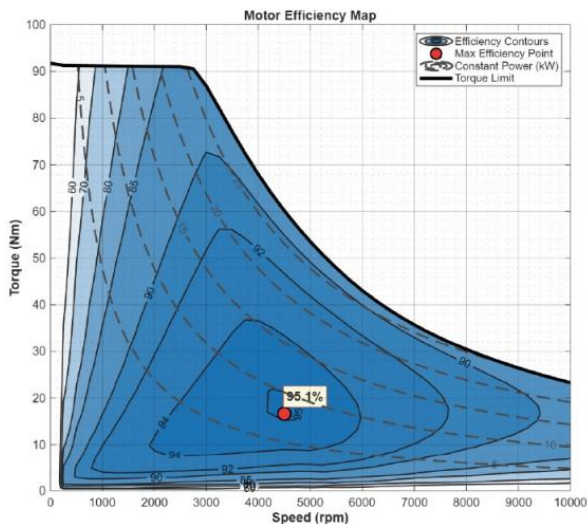
PMOD15569S - 80V

Application: Golf cart/ATV/E-tricycle
Small logistics vehicle



PMOD15569S	Unit	Parameters
Rated Voltage	Vdc	80
Peak Torque(30s)	Nm	92
Peak Power(30s)	kW	29
Conts. Torque(S2-60min)	Nm	28Nm [60min]@ 1500rpm
Conts. Torque(S2-2min)	Nm	65Nm [2min]@ 1000rpm
Conts. Power(S2-60min)	kW	4.3kW [60min]@ 1500rpm 8.1kW [60min]@ 3000rpm 11.0kW [60min]@ 4500rpm 11.1kW [60min]@ 6000rpm
Max. Efficiency	%	95.3%
Max. Speed	Rpm	12000
Cooling	/	Passive cooling
IP Level	/	IP67
Weight	Kg	12
Dimension W x L x H	mm	220x200x212
Installation interface	/	Flange positioning and installation
Transmission Interface	/	1.Spline 2.Belt 3.Customized
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	4Pin, a=2, Short-pitch, Y
Phases	/	3
Slots	/	48
Poles	/	8
Diameter of Stator Core	mm	155
Length of Stator Core	mm	69
Torque Ripple(Peak-Peak)	%	2%
Cogging Torque(Peak-Peak)	mNm	260
Others	/	EM Brake (optional)
Max Current		AC: 400Arms [30s], 150Arms [60min] DC: 420A [30s], 150A [60min]

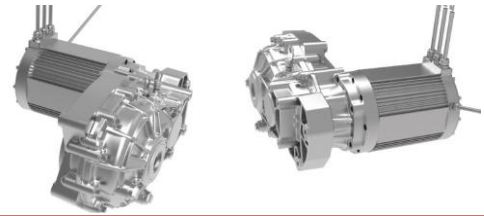
PROYAKA E-MOTOR



PMOD13880S - 72V

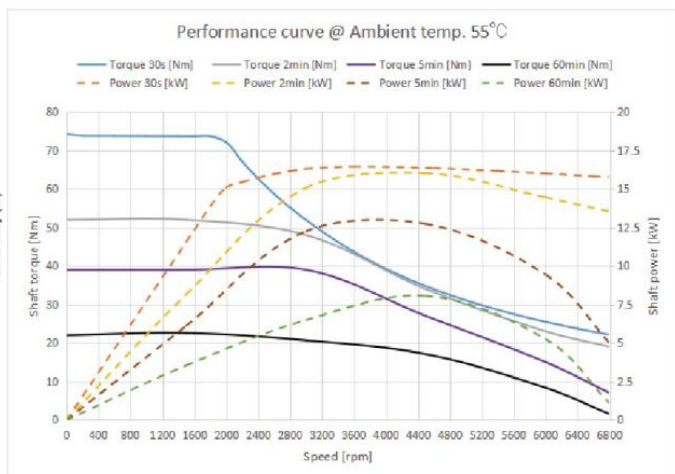
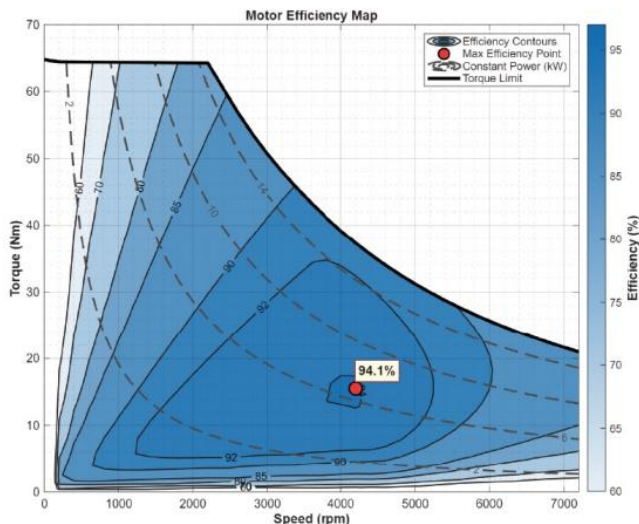
Motor + Transmission

Application: AGV/Golf cart/ATV
Kart/E-tricycle/Auto-Rickshaws



PMOD13880S	Unit	Parameters
Rated Voltage	Vdc	72
Peak Torque(30s)	Nm	73
Peak Power(30s)	kW	10.5
Conts. Torque(S2-60min)	Nm	22Nm [60min]@ 1500rpm
Conts. Torque(S2-2min)	Nm	52Nm [2min]@ 1000rpm
Conts. Power(S2-60min)	kW	3.5kW [60min]@ 1500rpm 6.5kW [60min]@ 3000rpm 8.0kW [60min]@ 4500rpm
Max. Efficiency	%	94.1%
Max. Speed	Rpm	7000
Cooling	/	Passive cooling
IP Level	/	IP67
Weight	Kg	10
Dimension W x L x H	mm	185x165x225
Installation interface	/	Flange positioning and installation
Transmission Interface	/	1.Spline 2.Belt 3.Customized
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	2Pin, a=1, Short-pitch, Y
Phases	/	3
Slots	/	48
Poles	/	8
Diameter of Stator Core	mm	138
Length of Stator Core	mm	80
Torque Ripple(Peak-Peak)	%	5%
Cogging Torque(Peak-Peak)	mNm	350
Others	/	EM Brake (optional)
Max Current		AC: 330Arms [30s], 125Arms [60min] DC: 250A [30s], 125A [60min]

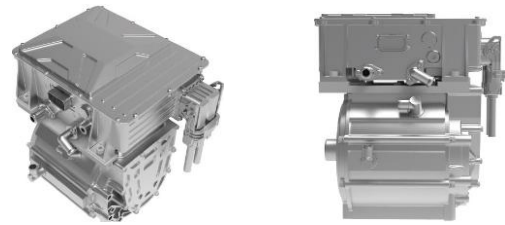
PROYAKA E-DRIVE SYSTEM



PMOD18080S - 350V

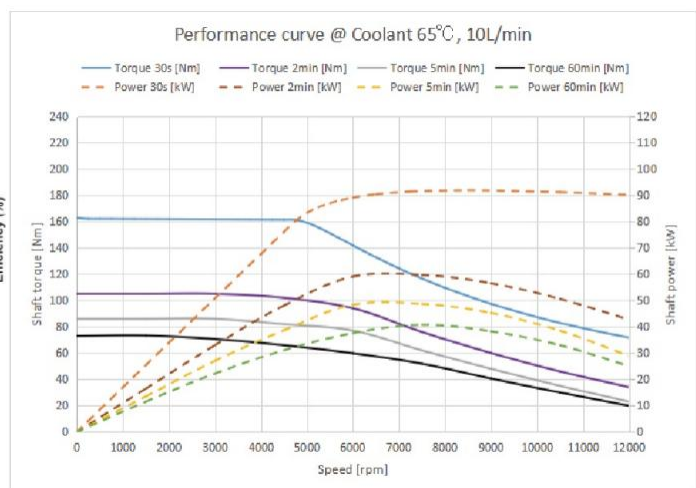
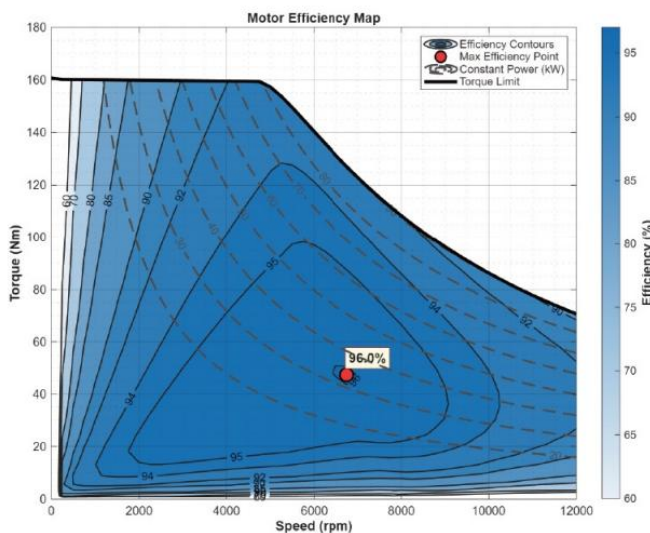
Motor + Converter

Application: EV, Boat/Logistics vehicle



PMOD18080S	Unit	Parameters
Rated Voltage	Vdc	350
Peak Torque(30s)	Nm	161
Peak Power(30s)	kW	91
Conts. Torque(S2-60min)	Nm	73Nm [60min]@ 1500rpm
Conts. Torque(S2-2min)	Nm	105Nm [2min]@ 1000rpm
Conts. Power(S2-60min)	kW	11.5kW [60min]@ 1500rpm
		22.2kW [60min]@ 3000rpm
		40.7kW [60min]@ 7500rpm
Max. Efficiency	%	96%
Max. Speed	Rpm	12000
Cooling	/	Liquid cooling
IP Level	/	IP68
Weight	Kg	25
Dimension W x L x H	mm	254x262x234
Installation interface	/	Flange positioning and installation
Transmission Interface	/	Spline
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2. Encoder sin/cos 3. Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire
Three-phase Connection	/	4Pin, a=1, Short-pitch, Y
Phases	/	3
Slots	/	48
Poles	/	8
Diameter of Stator Core	mm	180
Length of Stator Core	mm	80
Torque Ripple(Peak-Peak)	%	3.5%
Cogging Torque(Peak-Peak)	mNm	800
Others	/	EM Brake (optional)
Max Current		AC: 260Arms [30s], 140Arms [60min] DC: 290A [30s], 125A [60min]

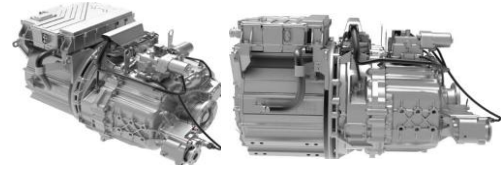
PROYAKA E-DRIVE SYSTEM



PMOD400190S - 630V

Motor + Converter + Transmission

Application: Heavy truck



PMOD400190S	Unit	Parameters
Rated Voltage	Vdc	630
Peak Torque(30s)	Nm	2400 [60s]
Peak Power(30s)	kW	410kw [60s]
Conts. Torque(S2-60min)	Nm	/
Conts. Torque(S2-2min)	Nm	/
Conts. Power(S2-60min)	kW	/
Max. Efficiency	%	97.4%
Max. Speed	Rpm	3600
Cooling	/	Liquid cooling, 65dgC, 20L/min
IP Level	/	IP67
Weight	Kg	93
Dimension W x L x H	mm	457x457x565
Installation interface	/	Flange positioning and installation
Transmission Interface	/	1.Spline 2.Belt 3.Customized
Temperature sensor	/	1 X NTC
Position sensor	/	1. Resolver 2.Encoder sin/cos 3.Eddy Current Sensor
Motor Type	/	PMSM inner Rotor Motor
Stator winding	/	Flat Wire ▲
Three-phase Connection	/	6Pin, a=2,
Phases	/	3
Slots	/	108
Poles	/	12
Diameter of Stator Core	mm	400
Length of Stator Core	mm	190
Torque Ripple(Peak-Peak)	%	/
Cogging Torque(Peak-Peak)	mNm	/
Others	/	/
Max Current	/	/

PROYAKA E-DRIVE SYSTEM

