Betatrak® underfloor busbar

Electrical Characteristics					
Rated Current				63	Amps
Rated Voltage				240/415	Volts
Frequency				50	Hz
Conditional Short Circuit Rating	(Protection device Bs88 fuse)			16	KA
Max withstand current				10 kA Peak	
Short time withstand current				1200A for 0.4 Sec	
Volt Drops (Line & Neutral)	Busbars			3.2	mV/A/m
	Feed Unit			0.4	mV/A
	Track Coupler			0.6	mV/A/m
	Tap off Connection			0.5	mV/A
	+4mm² Cable			11.00	mV/A/m
	+2.5mm²			18.00	mV/A/m
	Flexible Corner Unit			3.6	mV/A
	+10mm² Cable (1.2m)			4.7	mV/A/m
Earth Fault Loop Impedance	Line to Earth (Housing)			3.0	mΩ/m
	Line to Earth (Bar)			3.2	mΩ/m
	Line to Earth (Bar + Housing)			2.5	mΩ/m
	Feed Unit			0.8	mΩ
	Track Coupler			0.6	mΩ
	Tap off Connection			0.6	mΩ
	+4m² Cable			11.0	mΩ/m
	+2.5mm² & 4mm² Cable			14.5	mΩ/m
	Flexible Corner Unit			4.0	mΩ
	+10mm² Cable			4.7	mΩ/m
Mechanical Data					
Number of Copper Conductors				2, 3, or 5	
Busbar Cross-section Area				14	mm²
Betatrak® Basing Copper Equivalent (Where casing is protective Earth)				14	mm²
Cable Termination Capacity				16	mm²
Tap off Cable 32Amp (BS 7211)				4.0	mm²
Tap off Cable 13Amp fused (BS 7211)				2.5	mm²
Tap off Conduit Sizes				Ø16 or Ø20	mm
Flexible Corner Unit Cable (BS 7211)				10	mm²
Flexible Interlink Conduit				Ø25	mm
Feed Conduit Entry				1 or 2 x Ø25	mm
IP Rating BS EN 60529				4X	
Minimum void depth (track + tap off)				59	mm
Material Specification					
Betatrak® Casing	Galvanised Steel				
Busbars	High Conductivity Copper				
Busbar Insulators & Coupling Mould	Flame Retardant Polycarbonate				
Couple Contacts	Copper				
Feed Unit Terminals	Brass Silver Plated				
Tap off Socket & Plug Mouldings	Flame Retardant Polycarbonate				
Tap off Shutter	Polyester				
Tap off Plug Ins	Brass				
Tap off Cable	LSOH BS 7211				
Flexible Corner Cable	Tri Rated BS 6231				
Ambient Temperature Control Factors					
Temperature	25C	30C	35C	40C	50C
Factor	1.13	1.07	1.0	0.93	0.75

Betatrak product has been independently tested to comply with BS EN 60439-2 2000 & IEC 60439-2: 2000.
The product is designed to conform to BS EN 61534-22.

distribution power