Channel Name(s) RootFxr, RootFyr, RootFyr RootFxr, RootFyr, RootFyr RootMxr, RootMyr, RootMyr RootMxr, RootMyr, RootMyr RootMxr, RootMyr, RootMyr RootMxr, TipTDyr, TipTDyr (m), (m), (m) Root reaction moments expressed in r TipTDxr, TipTDyr, TipTDyr (m), (m), (m) Tip translational deflection (relative to the undeflected position) expressed in r TipRDxr, TipRDyr, TipRDyr (-), (-), (-) Tip angular/rotational deflection wiener-Milenković parameter (relative to the undeflected orientation) expressed in r TipTVXg, TipTVYg, TipTVZg (m/s), (m/s), (m/s) TipTXXg, TipTXYg, TipTXZg (deg/s), (deg/s), (deg/s) TipTXXg, TipTXYg, TipTXZg (deg/s), (deg/s), (deg/s), TipTxTanslational declerations (absolute) expressed in g TipTXXg, TipTXYg, TipTXZg (deg/s), (deg/s), (deg/s), TipTxTanslational declerations (absolute) expressed in g TipTXXg, TipTXYg, TipTXZg (deg/s), (deg/s), (deg/s), TipTxTanslational declerations (absolute) expressed in g TipTXXg, TipTXYg, NFFII (N), (N), (N), Sectional force resultants at NE expressed in g NFFXI, NFFYI, NFFII (N), (N), (N), Sectional moment resultants at NE expressed in g NFTXR, NFFYY, NFFII (N), (N), (N), (N) Sectional moment resultants at NE expressed in g NFTXR, NFTYY, NFTDr (m), (m), (m), (m) Sectional angular/rotational deflection wiener-Milenković parameter (relative to the undeflected orientation) at NE expressed in g NFTXXg, NFTXYg, NFTZg (m/s), (m/s), (m/s) NFTXXg, NFTXYg, NFTZg (deg/s), (deg/s), (deg/s), Sectional angular/rotational accelerations (absolute) at NB expressed in g NFTXXg, NFTXYg, NFTZg (deg/s), (deg/s), (deg/s), Sectional angular/rotational accelerations (absolute) at NB expressed in g NFTXXg, NFTXYg, NFTXZg (deg/s), (deg/s), (deg/s), Applied distributed moments at NB			
ROOTMYR, ROOTMYR, ROOTMYR (N m), (N m), (N m) Root reaction moments expressed in r TipTDXR, TipTDYR, TipTDZR (m), (m), (m) TipTranslational deflection (relative to the undeflected position) expressed in r TipRDXR, TipRDYR, TipRDZR (-), (-), (-) Tip angular/rotational deflection (relative to the underlected orientation) expressed in r TipTVXG, TipTVYG, TipTVZG (m/s), (m/s), (m/s) TipTXXG, TipTVYG, TipTVZG (deg/s), (deg/s), (deg/s), (desolute) expressed in r TipTXXG, TipTXYG, TipTXZG (deg/s), (deg/s), (m/s) TipTXXG, TipTXYG, TipTXZG (deg/s), (deg/s), (m/s) TipTXXG, TipTXYG, TipTXZG (deg/s), (d	Channel Name(s)	Units	Description
compressed in r TipTDxr, TipTDyr, TipTDzr (m), (m), (m) TipTxrsslational deflection (relative to the undeflection (relative to the undeflection position) expressed in r TipRDxr, TipRDyr, TipRDzr (-), (-), (-) Tip angular/rotational deflection Wiener-Milenkovic parameter (relative to the undeflected orientation) expressed in r TipTVXg, TipTVYg, TipTVZg (m/s), (m/s), (m/s) Tip translational velocities (absolute) expressed in g TipRXXg, TipRVYg, TipTVZg (m/s), (m/s), (m/s) Tip angular/rotational accelerations (absolute) expressed in g TipTAXg, TipTAYg, TipTAZg (m/s), (m/s), (m/s) TipTAXg, TipTAYg, TipTAZg (deg/s), (deg/s), (deg/s) TipTAXg, TipTAYg, TipTAZg (deg/s), (deg/s) TipTAXg, TipTAYg, TipTAZg (deg/s), (deg/s) TipTaXg, TipTAYg, TipTAZg (deg/s) (deg/s) (deg/s) TipTaXg, TipTAYg, TipTAZg (m/s), (m/s) NSFXl, NSFyl, NSFzl (N), (N), (N) NS Sectional force resultants at NS expressed in g NSFXr, NSFyr, NSFzr (N), (N), (N) NS Sectional force resultants at NS expressed in t NSTDxr, NSFDyr, NSFDzr (m), (m), (m) NSTDxr, NSFDyr, NSFDzr (m), (m), (m) NSTDxr, NSFDyr, NSFDzr (m), (m), (m) NSFDxr, NSFDxr NS	RootFxr, RootFyr, RootFzr	(N), (N), (N)	
(relative to the undeflected position) expressed in r TIPRDXR, TIPRDYR, TIPRDZR (-), (-), (-) Tip angular/scotational deflection where-Malentonic parameter (relative to the undeflected orientation) TiPTVXg, TiPTVYg, TiPTVZg (m/s), (m/s), (m/s) TipTXXg, TiPTVYg, TiPTVZg (deg/s), (deg/s), (deg/s) TiPTXXg, TiPTXYg, TiPTVZg (deg/s), (deg/s), (deg/s) TiPTXXg, TiPTXYg, TiPTXZg (m/s²), (m/s²), (m/s²) TiPTXXg, TiPTXYg, TiPTXZg (deg/s²), (deg/s²), (deg/s²) TiPTAXG, TiPTXYg, TiPTXZg (deg/s²), (deg/s²), (deg/s²) TiP angular/rotational accelerations (absolute) expressed in g TiPTXYg, NFF2l (N), (N), (N) Sectional force resultants at NB expressed in 1 NFFXr, NFFYr, NFFYr (N), (N), (N) Sectional force resultants at NB expressed in 1 NFFXr, NFFYr, NFFYr (M), (M), (M) Sectional translational deflection where resultants at NB expressed in r NFTXYR, NFTXYG, NFTXZG (m/s), (m/s), (m/s) NFTXYG, NFTXYG, NFTXZG (m/s), (m/s), (m/s) NFTXYG, NFTXYG, NFTXZG (m/s), (m/s), (m/s) NFTXYG, NFTXYG, NFTXZG (deg/s), (deg/s), (deg/s), (deg/s) NFTXYG, NFTXYG, NFTXZG (deg/s), (deg/s), (deg/s), (deg/s) NFTXYG, NFTXYG, NFTXZG (m/s), (m/s), (m/s) NFTXYG, NFTXYG, NFTXZG (deg/s), (deg/s), (deg/s), Sectional angular/rotational deflection will accelerations (absolute) at NB expressed in g NFTXXG, NFTXYG, NFTXZG (deg/s), (deg/s), (deg/s²), Sectional translational accelerations (absolute) at NB expressed in g NFTXXG, NFTXYG, NFTXZG (deg/s²), (deg/s²), Sectional angular/rotational accelerations (absolute) at NB expressed in g NFTXXG, NFTXYG, NFTXZG (deg/s²), (deg/s²), Sectional angular/rotational accelerations (absolute) at NB expressed in g NFTXXG, NFTXYG, NFTXZG (deg/s²), (deg/s²), Sectional angular/rotational accelerations (absolute) at NB expressed in g NFTXXG, NFTXYG, NFTXZG (M/s), (M/m), (N/m) NFTXYG, NFTXYG, NFTXZG (deg/s²), (deg/s²),	RootMxr, RootMyr, RootMzr	(N m), (N m), (N m)	
deflection Weiner-Milenkovic parameter (relative to the undeflected orientation) expressed in r TipTVXg, TipTVYg, TipTVZg (m/s), (m/s), (m/s) Tip translational velocities (absolute) expressed in g TipRVXg, TipRVYg, TipRVZg (deg/s), (deg/s), (m/s²) (m/s²), (m/s²) Tip angular/rotational velocities (absolute) expressed in g TipTAXg, TipTAYg, TipTAZg (m/s²), (m/s²), (m/s²) Tip angular/rotational accelerations (absolute) expressed in g TipTAXg, TipTAYg, TipTAZg (deg/s²), (deg/s²), Tip angular/rotational accelerations (absolute) expressed in g TipTAXg, TipTAYg, TipTAZg (deg/s²), (deg/s²), Tip angular/rotational accelerations (absolute) expressed in g TipTAXg, TipTAYg, TipTAZg (deg/s²), Tip angular/rotational accelerations (absolute) expressed in g NBFX1, NBFyl, NBFxl (N), (N), (N) Sectional force resultants at NB expressed in g NBFXI, NBFyl, NBFxl (N), (N), (N) Sectional moment resultants at NB expressed in l NBFXx, NBFxx, NBFxx, NBFxx (N), (N), (N) Sectional moment resultants at NB expressed in r NBTDXx, NBTDyx, NBTDxx (m), (m), (m) Sectional moment resultants at NB expressed in g NBFXx, NBFDyx, NBFDxx (m), (m), (m) Sectional moment resultants at NB expressed in g NBFXxx, NBFXyx, NBFXxx (m), (m), (m), (m) Sectional moment resultants at NB expressed in r NBTDxx, NBFDyx, NBFDxx (m), (m), (m), (m) Sectional angular/rotational deflection wiener-Milenković parameter (relative to the undeflected orientation) at NB expressed in g NBFXXxx, NBFXyx, NBFXxx (deg/s), (deg			(relative to the undeflected
(deg/s), (deg/s), (deg/s), Tip angular/rotational velocities (absolute) expressed in g (deg/s), (deg/s), (deg/s), Tip angular/rotational velocities (absolute) expressed in g (deg/s), (m/s²), (m/s²), (m/s²) Tip translational accelerations (absolute) expressed in g TipRAXg, TipRAXg, TipRAZg (deg/s²), (deg/s²), Tip angular/rotational accelerations (absolute) expressed in g (deg/s²), (deg/s²), (deg/s²),	TipRDxr, TipRDyr, TipRDzr	(-), (-), (-)	deflection Wiener-Milenković parameter (relative to the undeflected orientation)
Cleg/s velocities (absolute) expressed in g	TipTVXg, TipTVYg, TipTVZg	(m/s), (m/s), (m/s)	
accelerations (absolute) expressed in g TipRAXg, TipRAYg, TipRAZg (deg/s²), (deg/s²), Tip angular/rotational accelerations (absolute) expressed in g NβFX1, NβFy1, NβFy1 (N), (N), (N) Sectional force resultants at Nβ expressed in 1 NβMX1, NβMY1, NβMY1 (N m), (N m), (N m) Sectional moment resultants at Nβ expressed in 1 NβFXr, NβFyr, NβFyr (N), (N), (N) Sectional force resultants at Nβ expressed in 1 NβMXr, NβMYr, NβMZr (N m), (N m), (N m) Sectional moment resultants at Nβ expressed in r NβMXr, NβMYr, NβMZr (N m), (N m), (N m) Sectional moment resultants at Nβ expressed in r NβTDXr, NβTDyr, NβTDzr (m), (m), (m) Sectional moment resultants at Nβ expressed in r Sectional moment resultants at Nβ expressed in r NβTDXr, NβTDyr, NβTDzr (m), (m), (m) Sectional manual translational deflection wiener-Milenković parameter (relative to the undeflected orientation) at Nβ expressed in r NβTVXg, NβTVYg, NβTVZg (m/s), (m/s), (m/s) Sectional translational velocities (absolute) at Nβ expressed in g NβTAXg, NβTAYg, NβTAZg (m/s²), (m/s²), (m/s²) Sectional angular/rotational accelerations (absolute) at Nβ expressed in g NβTAXG, NβTAYG, NβTAZG (deg/s²), (deg	TipRVXg, TipRVYg, TipRVZg		Tip angular/rotational velocities (absolute)
Accelerations (absolute) expressed in g	TipTAXg, TipTAYg, TipTAZg	(m/s^2) , (m/s^2) , (m/s^2)	accelerations (absolute)
NβMX1, NβMY1, NβMZ1	TipRAXg, TipRAYg, TipRAZg		accelerations (absolute)
NβFXT, NβFYT, NβFZT (N), (N), (N) Sectional force resultants at Nβ expressed in r			
at Nβ expressed in r NβMxr, NβMyr, NβMzr	NβMxl, NβMyl, NβMzl		
At Nβ expressed in r	NβFxr, NβFyr, NβFzr	(N), (N), (N)	
MBRDXR, NBRDYR, NBRDZR (-), (-), (-) Sectional angular/rotational deflection Wiener-Milenković parameter (relative to the undeflected orientation) at NB expressed in r NBTVXG, NBTVYG, NBTVZG (m/s), (m/s), (m/s) Sectional translational velocities (absolute) at NB expressed in g NBRVXG, NBRVYG, NBRVZG (deg/s), (deg/s), (deg/s), (deg/s) Sectional angular/rotational velocities (absolute) at NB expressed in g NBTAXG, NBTAYG, NBTAZG (m/s²), (m/s²), (m/s²) Sectional angular/rotational accelerations (absolute) at NB expressed in g NBRAXG, NBRAYG, NBRAZG (deg/s²), (deg/s²), (deg/s²), (deg/s²), (deg/s²) Sectional angular/rotational accelerations (absolute) at NB expressed in g NBPFX1, NBPFy1, NBPFz1 (N), (N), (N) Applied point forces at NB expressed in 1 NBPMX1, NBPMy1, NBPMx1 (N m), (N m), (N m) Applied distributed forces at NB expressed in 1 NBDMx1, NBDMy1, NBDMx1 (N m/m), (N m/m)	· - · ·	(N m), (N m), (N m)	
deflection Wiener-Milenković parameter (relative to the undeflected orientation) at Nβ expressed in r NβTVXg, NβTVYg, NβTVZg	NβTDxr, NβTDyr, NβTDzr	(m), (m), (m)	deflection (relative to the undeflected position) at N β
NβRVXG, NβRVYG, NβRVZG(deg/s), (deg/s), (deg/s), (deg/s), sectional angular/rotational velocities (absolute) at Nβ expressed in gNβTAXG, NβTAYG, NβTAZG(m/s²), (m/s²), (m/s²)Sectional translational accelerations (absolute) at Nβ expressed in gNβRAXG, NβRAYG, NβRAZG(deg/s²), (deg/s²), (deg/s²), sectional angular/rotational accelerations (absolute) at Nβ expressed in gNβPFx1, NβPFy1, NβPFy1, NβPFy1(N), (N), (N)Applied point forces at Nβ expressed in lNβPMx1, NβPMy1, NβPMy1, NβPMy1(N m), (N m), (N m)Applied point moments at Nβ expressed in lNβDFx1, NβDFy1, NβDFy1, NβDFy1(N/m), (N/m), (N/m)Applied distributed forces at Nβ expressed in lNβDMx1, NβDMy1, NβDMy1, NβDMx1(N m/m), (N m/m), (N m/m), (N m/m)Applied distributed moments	NβRDxr, NβRDyr, NβRDzr	(-), (-), (-)	deflection Wiener-Milenković parameter (relative to the undeflected orientation) at
(deg/s) velocities (absolute) at Nβ expressed in g NβTAXG, NβTAYG, NβTAZG (m/s²), (m/s²), (m/s²) Sectional translational accelerations (absolute) at Nβ expressed in g NβRAXG, NβRAYG, NβRAZG (deg/s²), (deg/s²), (deg/s²), (deg/s²) Sectional angular/rotational accelerations (absolute) at Nβ expressed in g NβPFxl, NβPFyl, NβPFzl (N), (N), (N) Applied point forces at Nβ expressed in l NβPMxl, NβPMyl, NβPMzl (N m), (N m), (N m) Applied point moments at Nβ expressed in l NβDFxl, NβDFyl, NβDFzl (N/m), (N/m), (N/m) Applied distributed forces at Nβ expressed in l NβDMxl, NβDMyl, NβDMzl (N m/m), (N m/m), (N Applied distributed moments	NβTVXg, NβTVYg, NβTVZg	(m/s), (m/s), (m/s)	velocities (absolute) at Nβ
NβTAXG, NβTAYG, NβTAZG (m/s²), (m/s²), (m/s²) Sectional translational accelerations (absolute) at Nβ expressed in g NβRAXG, NβRAYG, NβRAZG (deg/s²), (perional angular/rotational accelerations (absolute) at Nβ expressed in g NβPFX1, NβPFy1, NβPFy1, NβPFy1, NβPFy1, NβPMx1, NβPMy1, NβPMy1, NβPMy1, NβPMy1, NβPMy1, NβPFy1, NβPFy1	NβRVXg, NβRVYg, NβRVZg		velocities (absolute) at Nβ
(deg/s²) accelerations (absolute) at Nβ expressed in g NβPFx1, NβPFy1, NβPFz1 (N), (N), (N) Applied point forces at Nβ expressed in l NβPMx1, NβPMy1, NβPMz1 (N m), (N m), (N m) Applied point moments at Nβ expressed in l NβDFx1, NβDFy1, NβDFz1 (N/m), (N/m), (N/m) Applied distributed forces at Nβ expressed in l NβDMx1, NβDMy1, NβDMz1 (N m/m), (N m/m), (N Applied distributed moments			Sectional translational accelerations (absolute) at NB expressed in g
expressed in l NβPMxl, NβPMyl, NβPMzl (N m), (N m), (N m) Applied point moments at Nβ expressed in l NβDFxl, NβDFyl, NβDFzl (N/m), (N/m), (N/m) Applied distributed forces at Nβ expressed in l NβDMxl, NβDMyl, NβDMzl (N m/m), (N m/m), (N Applied distributed moments	1 37 1 37 1 3	(deg/s²)	accelerations (absolute) at N β expressed in g
expressed in 1 NβDFx1, NβDFy1, NβDFz1 (N/m), (N/m), (N/m) Applied distributed forces at Nβ expressed in 1 NβDMx1, NβDMy1, NβDMz1 (N m/m), (N m/m), (N Applied distributed moments			expressed in 1
			expressed in 1
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	NβDMx1, NβDMy1, NβDMz1		